



GRADUATE  
CATALOG  
2018-2019

**UAB** THE UNIVERSITY OF  
ALABAMA AT BIRMINGHAM

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# Graduate

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## Welcome to the UAB Graduate School

The UAB Graduate School seeks to nurture skills that transcend disciplinary boundaries, preparing graduate students to participate successfully in professional and academic arenas. With coordinated and interdisciplinary degree programs available, the UAB Graduate School offers students an opportunity to tailor their educational experience to their own career objective. The Graduate School administers doctoral programs, post-masters education specialist programs, and master's level programs, with additional programs planned for the future.

Graduate students, you should expect many challenges as they build upon previous educational experiences in new and exciting ways. Graduate education has a distinctly different character from that of undergraduate education. Students explore their chosen area of study in greater depth, and are also challenged to reach across boundaries and address larger intellectual issues. There will be greater emphasis on originality and the creation of new knowledge.

The Graduate Catalog outlines all of the policies and procedures pertaining to academic performance, degree progress, academic and non-academic conduct, and student responsibilities. UAB graduate students are expected to be familiar with these policies and to abide by them. Failure to do so may impede a student's progress or may result in disciplinary action and, in some cases, dismissal. In addition to Graduate School policies, students are responsible for knowing and abiding by all UAB Policies and Procedures which can be located in the UAB Policies and Procedures Library at [here](#).

## The Graduate Council

The Graduate Council is comprised of all graduate program directors. The Graduate Council Advisory Committee is a subset of these program directors who have been designated by their school deans to serve in an advisory capacity to the Graduate School Dean. The Advisory Committee reviews academic requirements, policies, procedures, and Graduate School activities. The committee recommends and approves appropriate changes. Changes in academic requirements and related policies require a majority vote of the Advisory Committee.

The Graduate Council Advisory Committee, through consultation with the Dean, is responsible for developing academic requirements and describing these requirements through appropriate policies. The Dean, through consultation with the Graduate Council, is responsible for developing procedures that effectively enforce academic requirements and implement policies. The Graduate Council Advisory Committee has developed policies and procedures to ensure that high standards for graduate study are maintained at UAB. These policies and procedures are available at the Graduate School's Web site (<https://www.uab.edu/graduate/academic-p-and-p>).

## The Graduate Faculty

Graduate faculty membership may be granted by the Dean of the Graduate School to faculty members who demonstrate a high level of competence in teaching and scholarship. Graduate faculty are nominated by the faculty member's department chair and/or graduate program director, and membership is required of all individuals teaching courses

for graduate credit and of members of graduate study committees. A complete listing of the graduate faculty can be found on the Graduate School Web site (<http://www.uab.edu/graduate/gradfaclist>).

## Graduate School Professional Development Program

Through its Professional Development Program, the Graduate School offers courses, workshops and seminars designed to help graduate students, postdoctoral fellows, and other academic professionals develop communication and other career-enhancing skills. Current offerings include credit-bearing courses and workshops, as well as free seminars, in writing, funding, presentations, and teaching at the college level. More information and schedules are available at the Professional Development Program's Web site ([www.uab.edu/pdp](http://www.uab.edu/pdp)).

## Graduate School Deadlines

All Graduate School deadlines, as indicated on the calendar or in explanation of policies and procedures, unless otherwise stated, are final by **5:00 p.m.** on the date specified, by which time all transactions must be completed and documents received in the Graduate School. Transactions and documents requiring the action or approval of graduate advisors, committee members, instructors, department chairs, academic deans, or others prior to receipt by the Graduate School should be initiated by the appropriate person (student, instructor, graduate advisor, or other) sufficiently in advance of the Graduate School deadline for the required actions to be taken and approvals made or declined before the deadline. Deadline dates are available online at <http://www.uab.edu/graduate/deadline-dates>.

## About UAB

Over five decades, UAB has evolved from an academic extension center into an autonomous, comprehensive urban university and academic health center within the University of Alabama System. UAB has established wide-ranging programs in the College of Arts and Sciences and the schools of Business, Dentistry, Education, Engineering, Health Professions, Medicine, Nursing, Optometry and Public Health, with graduate programs serving all major units. Fall 2017 enrollment was a record-high 20,902 students. The freshman class had an average ACT of 25.1, and a high school GPA of 3.66.

UAB is situated near downtown Birmingham and the historic Five Points South district. The campus stretches across 100 square blocks and occupies more than 100 primary buildings. UAB is Alabama's largest single-site employer, with more than 23,000 employees and an economic impact exceeding \$7.15 billion annually on the state.

## General Information

### Role Statement

UAB's graduate offerings are shaped by its location in the state's largest metropolitan area, by its mandate to serve a large and heterogeneous constituency, by its responsibility to contribute to the economic and professional development of Birmingham and the state, and by its role of providing support to a nationally recognized academic health sciences center.

At the graduate level, programs serve the career needs of educators and business leaders, as well as those involved in advancing the frontiers of the health sciences. Training for health professionals is available through

programs at the baccalaureate, master's, doctoral, and professional degree levels.

UAB also has the primary responsibility for meeting the state's health professional needs. It offers a comprehensive range of programs which encompass both basic preparation and sophisticated graduate and specialty training in medicine, dentistry, optometry, nursing, health professions, and public health.

As one of the nation's leading research institutions, UAB emphasizes both basic and applied research. Although the majority of the university's research effort is in the biomedical sciences and related areas, all instructional programs are expected to participate in research activities. UAB's urban setting necessitates the development of research programs that are responsive to the city's economic, social, and cultural needs. Much of the research conducted at UAB is interdisciplinary in nature and is organized through centers that bring together experts in a number of related fields to concentrate on a particular problem or issue. UAB attracts more than \$400 million annually in research funding and currently ranks 10th among public universities in funding from the National Institutes of Health. The Carnegie Foundation for the Advancement of Teaching has named the University of Alabama at Birmingham to its list of colleges and universities to receive its 2015 Community Engagement Classification. UAB is one of 51 universities nationally and the only college in Alabama to be classified for high research activity and community engagement.

As the senior public doctoral-level institution in the state's major urban area, UAB is committed to providing comprehensive programs in continuing education consistent with the quality and diversity of its other offerings. The university's faculty, staff, and students also serve as resources to the area through activities related to professional, economic, and cultural growth and development.

## Cultural Opportunities

UAB's urban location offers students unique cultural opportunities. Located within walking distance of the campus is the Five Points South district, where local and unique restaurants, shops, art galleries, and music clubs are located. Not far from campus are the Birmingham Museum of Art, the Civil Rights Institute, the historic Alabama Theater, and the Birmingham-Jefferson Convention Complex. Other nearby sites include Sloss Furnace, a post-Civil War iron foundry which has been converted into a museum and informal music hall, and Oak Mountain Amphitheater, an outdoor facility that features music-industry headliners during the spring and summer concert season.

UAB has a flourishing arts program. As many as 30 major music events are produced each season at UAB, in addition to numerous theater productions and student and professional art exhibitions. The Alys Robinson Stephens Performing Arts Center is a state-of-the-art facility featuring 4 formal performance spaces: the 1,300-seat Jemison Concert Hall, the 350-seat Morris K. Sirrote proscenium theater, the 170-seat Reynolds-Kirschbaum Recital Hall, and the Odessa Black Box Theater, which can seat up to 120.

## Student Life

Graduate students at UAB have many opportunities to become involved in the life of the university. Information about additional groups, both on and off campus, can be found in the UAB Student Handbook, *Direction* at <http://www.uab.edu/handbook>. Such organizations include: Graduate Student Government (GSG), Black Graduate Student Association (BGSA), Society for Advancement of Hispanics/Chicanos and Native

Americans in Science (SACNAS), and Graduate Career Awareness and Trends (GCAT).

## Schools and Degrees

This catalog contains information about graduate programs in the College of Arts and Sciences, School of Business, School of Dentistry, School of Education, School of Engineering, School of Health Professions, School of Nursing, School of Optometry, School of Public Health and the Joint Health Sciences.

Most UAB graduate students are working toward a degree; however, some have other educational goals. Graduate level degrees are usually characterized by the level of master's, specialist or doctoral.

## College of Arts & Sciences

### Master of Arts

Anthropology<sup>5</sup>  
 Art History<sup>1</sup>  
 Communication Management  
 English  
 History  
 Sociology  
 Psychology

### Master of Public Administration

### Master of Science

Biology  
 Chemistry  
 Computer and Information Sciences  
 Computer Forensics and Security Management  
 Criminal Justice  
 Forensic Science  
 Mathematics  
 Physics

### Doctor of Philosophy

Applied Mathematics  
 Biology  
 Chemistry  
 Computer and Information Sciences  
 Medical Sociology  
 Physics  
 Psychology

## Biomedical Sciences/Joint Health Sciences

### Interdisciplinary Themes\*

Biochemistry, Structural and Stem Cell Biology  
 Cancer Biology  
 Cell, Molecular and Developmental Biology  
 Genetics, Genomics and Bioinformatics  
 Immunology  
 Microbiology  
 Neuroscience  
 Pathobiology and Molecular Medicine

\*Completion of the training requirements in one of the above interdisciplinary themes provides eligibility for conferral of one of the following PhD degrees:

- Biochemistry and Molecular Genetics
- Cell Biology
- Cellular and Molecular Physiology
- Genetics
- Microbiology
- Neurobiology
- Pathology
- Pharmacology and Toxicology

## **School of Business**

### **Master of Accounting**

### **Master of Business Administration**

### **Master of Science in Management Information Systems**

## **School of Dentistry**

### **Master of Science**

## **School of Education**

### **Master of Arts in Education**

Arts Education  
Community Health  
Early Childhood Education  
Educational Leadership  
Elementary Education  
English as a Second Language  
Health Education  
High School Education  
Kinesiology  
Music Education  
Reading  
School Counseling  
Special Education

### **Educational Specialist**

Educational Leadership  
Early Childhood Education  
Elementary Education  
English as a Second Language  
Secondary Education  
Special Education: Autism Spectrum Disorder  
Teacher Leadership

### **Doctor of Education**

Educational Leadership

### **Doctor of Philosophy**

Early Childhood Education  
Health Education Promotion

## **School of Engineering**

### **Master of Science**

Biomedical Engineering  
Civil Engineering  
Electrical Engineering  
Materials Engineering  
Mechanical Engineering

### **Master of Engineering**

Advanced Safety Engineering and Management  
Construction Engineering Management  
Design and Commercialization  
Information Engineering and Management

### **Doctor of Philosophy**

Biomedical Engineering  
Civil Engineering  
Computer Engineering  
Interdisciplinary Engineering  
Materials Engineering

## **School of Health Professions**

### **Master of Science**

Biotechnology  
Clinical Laboratory Science  
Genetic Counseling  
Healthcare Quality and Safety  
Nutrition Sciences  
Occupational Therapy

### **Master of Science in Health Administration**

### **Master of Science in Health Informatics**

### **Master of Science in Physician Assistant Studies**

### **Doctorate of Physical Therapy**

### **Doctorate of Science in Administration Health Services**

### **Doctor of Philosophy**

Administration Health Services  
Nutrition Sciences  
Rehabilitation Sciences

## **School of Nursing**

### **Master of Science in Nursing**

### **Doctor of Nursing Practice**

### **Doctor of Philosophy**

## **School of Optometry**

### **Master of Science**

Vision Sciences

### **Doctor of Philosophy**

Vision Sciences

## **School of Public Health**

### **Master of Public Health**

### **Doctor of Public Health**

### **Master of Science in Public Health**

### **Doctor of Public Health**

### **Doctor of Philosophy**

## Non-Academic Policies

### Student Conduct Code

The Student Conduct Code promotes honesty, integrity, accountability, rights and responsibilities expected of students consistent with the core missions of the University of Alabama at Birmingham. This Code describes the standards of behavior for all students, and outlines student's rights, responsibilities, and the campus processes for adjudicating alleged violations. Behavior that violates UAB standards of conduct listed within the Student Conduct Code and elsewhere will be subject to disciplinary action through the appropriate conduct process. Whether it is determined that an individual or group is responsible for the violation(s), either by direct involvement or by condoning, encouraging, or covering up the violation, appropriate response will occur with respect to the individual(s) and/or group involved.

### Equal Opportunity and Discriminatory Harassment Policy

UAB is committed to equal opportunity in education and employment, and the maintenance and promotion of nondiscrimination and prevention of discriminatory harassment in all aspects of education, recruitment and employment of individuals throughout the university.

### Immunization Policy

UAB requires that first-time entering students, international students and scholars, and students in health-related schools provide proof of immunization against certain diseases.

### Non-Resident Tuition Policy

This policy addresses non-resident tuition, certification of residency status by campus officials, and establishment of campus policies to administer an appeals process.

### Drug-Free Campus Policy for Students

Unlawful possession, use, manufacture, distribution, or dispensing of illicit drugs, controlled substances, or alcoholic beverages by any UAB student is prohibited.

#### Drug-Free Campus Policy for Students - Attachment A

This attachment to the Drug-free Campus Policy for Students outlines the Federal penalties and sanctions for the illegal possession of a controlled substance.

#### Drug-Free Campus Policy for Students - Attachment B

This attachment to the Drug-free Campus Policy for Students outlines the health risks associated with the use of drugs and alcohol.

#### Drug Free Campus/Workplace Policy - Attachment B.1

This Attachment to the Drug-Free Campus and Drug-Free Workplace Policies outlines effects related to the consumption of alcohol.

### Drug-Free Campus Policy for Students - Attachment C

This attachment to the Drug-Free Campus Policy describes available programs through UAB offering counseling and assistance for drug and alcohol abuse.

### Copyright Policy

The University of Alabama at Birmingham (the "University") is dedicated to instruction, research and service to benefit society and encourages its faculty, staff and students to carry out scholarly endeavors in an open and free atmosphere, and to publish the results of such work without restraint, consistent with applicable law and policy.

### Patent Policy

UAB encourages the development of procurement and licensing of patents for inventions in the interest of the public, the inventor, and the university.

### Data Protection and Security Policy

Data (electronic) created at UAB must be protected and maintained in accordance with all applicable federal and state laws and university policies.

### Student E-Mail Address Policy

November 10, 2003

#### See also:

*Electronic Data Processing Security Policy*

*Acceptable Use Policy*

*Network Usage Guidelines*

#### Purpose

UAB provides electronic mail resources in support of its instruction, research, and service activities. The purpose of this policy is to establish the use of electronic mail (e-mail) as one of the official methods for communicating with UAB students.

#### Official Communications Using E-Mail Addresses

In a similar manner as mail distribution of paper communiqués to a student's "permanent" address is considered an official method for distributions to students, so also are official e-mail messages sent by UAB to a student's "@UAB.EDU" e-mail address considered an official distribution method. For purposes of this policy, "official" communiqués or e-mails as used here are those established as "official" through other approval mechanisms in place at UAB.

#### Student Requirements and Responsibilities

Every student enrolled at UAB must have an e-mail address that ends with "@UAB.EDU". Such an e-mail address is required for a student to register for UAB credit courses. It is the student's responsibility to obtain an official UAB e-mail address in a timely manner from the UAB e-mail registering system (BlazerID World Wide Web site). This will require the student also to have a valid,

current, and reliable electronic mailbox through an Internet Service Provider (ISP) or portal or on a server administered by the student's academic department, or on the central mail service provided by the Office of the Vice President for Information Technology. It is the student's responsibility to check his or her e-mail regularly for distribution of official UAB communiqués. UAB recommends that e-mail be checked at least once a day, when practicable. UAB is not responsible for lost, rejected, or delayed e-mail forwarded by UAB from a student's "@UAB.EDU" address to off campus or unsupported e-mail services or providers. Such lost, rejected, or delayed e-mail does not absolve the student from responsibilities associated with an official UAB communiqué sent to the student's official UAB e-mail address ("@UAB.EDU"). If there is a change in a student's e-mail address to which the "@UAB.EDU" alias address is re-directed, it is the student's responsibility to make the changes in the UAB e-mail registering system.

## UAB Responsibilities

UAB will ensure that all students have access to an e-mail account and will provide means for students who do not otherwise have access to e-mail-capable computers to be able to check their e-mail through such mechanisms as computer labs, the UAB libraries, and public terminals. UAB will provide mechanisms to allow students to request that their e-mail addresses not be published in a similar way that other student directory information is not published. However, unpublished e-mail addresses will be used for sending official UAB communiqués to students including communications to a group of students such as a course e-mail list. Students also will be provided mechanisms for requesting that their e-mail addresses not be used for general UAB mailings that are not official communications with students. UAB is not responsible for the handling or mishandling of students' e-mail by non-UAB providers or by unofficial (non-@UAB.EDU) e-mail servers.

## Student Records Policy

The University of Alabama at Birmingham student records policy complies with the Family Educational Rights and Privacy Act of 1974, as amended. All students enrolled or previously enrolled at UAB have certain rights with regard to information included in their education records. These rights are the subject of this policy.

Request to Withhold Directory Information PDF

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## Enrollment Registration

Students must register for all courses for which they wish to earn graduate credit. The UAB class schedule is accessible via BlazerNET located at <http://www.uab.edu/blazernet>. The class schedule lists the courses offered each semester and provides full details on prerequisites, registration dates, and procedures. Students are able to register for courses as well as adjust their schedule by adding and dropping courses through the end of the drop/add period which is denoted on the academic calendar.

To be enrolled as a full-time graduate student, a student must register for at least 9 semester hours in the fall, spring, and summer semesters. To be classified as a half-time graduate student, they must register for at least 5 semester credit hours in the fall, spring, and summer semesters. Degree-seeking students who wish to receive financial aid must be enrolled at least half-time.

Certain funding sources (e.g., training grants, individual grants and fellowships) may have additional enrollment requirements that must also be satisfied. In addition, student loan recipients must satisfy certain minimal enrollment requirements to defer repayment. Students should consult with their funding source or the Financial Aid Office to determine these requirements as they apply to their specific situation.

## Auditing Graduate Courses

Graduate students who have been formally admitted as either a non-degree or degree-seeking student may audit courses available for graduate credit with the permission of the instructor and payment of appropriate fees. Courses taken for audit credit are not counted toward the hours required for full-time status, are not counted as earned hours, are not assigned a letter grade, and do not impact a student's GPA. Provided the instructor's requirements are met, the course will appear on the transcript with the notation AU.

The Permission to Audit Graduate Level Coursework form, which can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms), should be submitted to the Graduate School for approval prior to registration.

## Withdrawal from Courses

Graduate students are expected to complete courses for which they have registered, unless unusual and unforeseen circumstances require withdrawal. The procedures for withdrawal are specified on BlazerNET. **Mere cessation of class attendance does not constitute withdrawal, either academically or for tuition purposes.** Students who wish to withdraw from a class or classes after the drop/add period must proceed with the withdrawal in BlazerNET no later than the last day to withdraw for the semester, which is denoted on the Academic Calendar calendar at, [www.uab.edu/students/academics/academic-calendar](http://www.uab.edu/students/academics/academic-calendar). If a student follows the appropriate procedures to withdraw in BlazerNET, a grade of "W" will be entered on the transcript. Withdrawal from a course after the withdrawal deadline requires an academic appeal, which can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms), signed add/drop form, and documentation of extenuating circumstances. Academic appeals should be submitted directly to the Graduate School.

## Leave of Academic Absence

A graduate student experiencing extenuating circumstances may request a leave of academic absence for up to one (1) academic year. The

Request for Leave of Academic Absence form can be found at the Graduate School Web site at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms) and requires approval by the student's graduate program director and the Graduate School. Leave of Absences are term based and students' records will only be updated with a leave of absence status in a term in which they were not registered. If a student is receiving funding and fails to meet the requirements of their assistantship, their stipend can be ended at any time throughout the semester..

## Course Numbering System

The scholastic level of UAB courses is indicated by the century number. Courses numbered 500 and above are graduate and post baccalaureate courses. Courses numbered 500-599 are available to upper-level undergraduate and beginning graduate students. Courses numbered 600 and above are for available only to graduate students. Those numbered 600-699 are intended primarily for students at the master's level, with 698 reserved for nonthesis research and 699 reserved for thesis research. Courses numbered 700-799 are primarily for students at the doctoral level, except in the School of Education where the numbers from 700-729 are reserved for courses leading to the degree of Educational Specialist (Ed.S.). The number 798 is reserved for nondissertation research and 799 for dissertation research. Seminars, practica, individual studies and projects, internships, and residencies will generally carry numbers in the upper range of these centuries.

## Undergraduates Seeking Enrollment

UAB undergraduate students may be allowed to enroll in a graduate course with the approval of their academic advisor, their undergraduate program director, the graduate course instructor, and the graduate program director. The Undergraduate Student Request for Enrollment in Graduate Level Coursework form can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms). Credits earned by undergraduate students may be applied to either an undergraduate degree or a graduate degree, but not both. Students must indicate which type of credit they would like to earn on the request form.

## Withdrawal from the UAB Graduate School

Students who wish to withdraw from the University of Alabama at Birmingham must submit a written request to the Graduate School expressing their intent to withdraw. Should a student who has withdrawn from the Graduate School decide they would like to return to the university, they must apply to the Graduate School as a degree-seeking student and be admitted by the program rather than completing a readmission form.

# Admissions

## Admission as a Degree-Seeking Student

UAB welcomes applications from all individuals whose preparation and abilities give them a reasonable chance of success in its programs. All applicants must offer acceptable evidence of ability and intent to meet the academic standards of the university. Degree-seeking graduate students are those accepted into a specific graduate program to work toward a specific advanced degree. In addition to the completed online application, the Graduate School requires an application fee and official transcripts. To be considered official, academic transcripts must be mailed to UAB directly from the college/university attended, sent electronically to the

UAB Graduate School by the school's Registrar's Office, or submitted in a sealed envelope bearing a university signature or stamp across the seal.

Standardized academic test scores are not required by the Graduate School; however, they may be required by the academic program so applicants should check with the program to which they are applying. The Graduate School requires English proficiency for international applicants. This requirement is automatically waived for international applicants who earned a bachelor's, graduate, or professional degree in the US with a minimum GPA of 3.00. All other international applicants are required to submit TOEFL/IELTS/PTEA test scores that meet these requirements: 80 on the TOEFL, 6.5 on the IELTS, or a 53 on the PTEA. Official test scores must be sent directly to UAB from the testing agencies. Academic programs may choose to waive academic test scores at their discretion based on the qualifications of the applicant. However, the English proficiency requirement may not be waived.

Individual graduate programs often require additional items such as letters of recommendation, a personal essay, or a resume so it is important that applicants are aware of program specific admissions requirements. Complete graduate applications are reviewed by graduate program faculty who make an admissions recommendation to the Graduate School. All credentials submitted as part of the application for admission become and remain property of the university and will not be returned to the student, duplicated, or transferred to another institution.

Any change in a student's record prior to enrollment will necessitate a new review of the application. Any omissions or misrepresentations on a student's application for admission will automatically invalidate consideration by and acceptance to UAB. If, after a student is admitted to the university, information comes to light that indicates an applicant did not meet all admission requirements, the applicant's offer of admission will be rescinded.

The application for admission, application instructions, and application deadlines can be accessed at <http://www.uab.edu/graduate/admissions>.

## Admission as a Non-Degree Student

Students who do not wish to pursue a graduate degree at UAB but would like to enroll in graduate courses or those who wish to begin graduate study before being admitted to a degree program can apply as a graduate non-degree seeking student. Registration in non-degree courses requires departmental approval as not all graduate courses are open to non-degree seeking graduate students. There is no limit to the number of graduate non-degree (GN) credit hours a non-degree seeking student can accumulate. However, should a student later wish to enroll as a degree seeking student at UAB, **no more than 12 semester hours earned as a non-degree graduate student may be applied toward an advanced degree at UAB. Students wishing to apply more than 12 semester hours are required to appeal to the Graduate School Dean for permission. Should a student be admitted to a degree program, the credit earned while in non-degree seeking status is not automatically acceptable toward the degree.**

Because of U.S. immigration requirements, international applicants (i.e., those who are neither U.S. citizens nor permanent residents) typically cannot be considered for the non-degree category unless already residing in the United States. Immigration laws should be consulted to determine eligibility of International students should consult immigration laws.

## International Admissions

The University of Alabama at Birmingham welcomes international applicants. An international applicant is neither a citizen nor a permanent resident of the United States. International applicants should consult the Graduate School website at <http://www.uab.edu/graduate/international> for information regarding additional admissions requirements.

## Change from Non-Degree to Degree-Seeking Status

A student with a non-degree classification who wishes to change to a degree-seeking classification must apply via the degree-seeking application and submit the required documents (transcripts, applicable test scores, and program-specific supporting documents). Degree-seeking admission of non-degree students is neither automatic nor guaranteed.

## Readmission as a Degree-Seeking Student

Students who have not registered for three (3) consecutive semesters will be changed to inactive student status and must apply for readmission before they will be able to register for courses at UAB. Degree-seeking students who meet the following criteria are able to apply for readmission by submitting an application for readmission by visiting the Graduate School homepage ([uab.edu/graduate](http://uab.edu/graduate)) and clicking the "Apply Now" button. Readmission also requires payment of the readmission fee, which is \$30 for the 2017 – 2018 academic year.

1. Were admitted to a UAB Graduate Degree-Seeking Program within the last five years, and
2. Have registered for and successfully passed at least one graduate course at UAB after being admitted to a UAB Graduate Degree-Seeking Program BUT have not registered for courses for one academic year (3 semesters) or more, and
3. Have not attended any other university or college in the interim, and
4. Wish to return to the graduate program to which they were previously admitted

Readmitted students must meet the degree requirements operative at the time of readmission.

## Admission with Contingencies

Students lacking one or more admission requirements may be admitted to a graduate program contingent upon submission or completion of those requirements. Graduate students admitted with contingencies have until the end of their first semester of enrollment to resolve all contingencies. Examples of contingencies that must be resolved are submission of official transcripts, official test scores, official degree statements, required course completion, etc. Students are informed of specific requirements for continued enrollment and the time allowed for completion at the time of admission. Failure to meet the requirements during the stipulated time will result in a registration hold until the contingency is resolved and may result in dismissal from the Graduate School.

## Admission of Students Previously Dismissed

When any individual applies to a graduate program, a significant part of the admissions decision involves an estimate, based on the applicant's

academic history, of whether the applicant can perform satisfactorily at the graduate level. Applicants who have previously been academically dismissed from the Graduate School must present convincing evidence to program faculty and the Graduate School Dean that a substantial improvement has occurred so that it is probable that the applicant can now perform at the required level in graduate work. In general, students are not admitted to a graduate program from which they have been previously dismissed.

## Dual Degree Programs

UAB offers many opportunities for students to pursue two advanced degrees concurrently.

Students wishing to be enrolled in two programs concurrently should must submit a degree-seeking application and be admitted to each program individually. The minimum number of credit hours required for each degree must be met. Courses may not be double counted and are only allowed to fulfill requirements for one degree.

## Fast Track

UAB offers a limited number of Fast Track programs for students who wish to begin working on masters requirements while completing their bachelor's degree. Students are often able to earn both a bachelor's and master's degree in five years although the exact time to complete the master's degree varies based on program.

## Concurrent Degrees

Students who do not qualify for a combined degree program but wish to begin work toward a second graduate degree may enroll in and earn up to 12 semester hours in the secondary program without special permission while simultaneously earning credit toward their original degree. However, **no more than 12 semester hours earned while pursuing the first degree program may be applied toward the second degree without prior approval by both the graduate program and the Dean of the Graduate School.**

## UAB Employee Admission

To maintain university accountability, UAB faculty and staff who wish to take occasional graduate courses may only register for these courses after admission to the Graduate School as either a non-degree seeking student or a degree-seeking student. Admission of a UAB employee as a degree-seeking graduate student requires the concurrence of the applicant's department chair and dean(s), as well as the approvals required for other applicants to the same program. For more information regarding Educational Assistance, visit the UAB Human Resources Web page at <http://www.uab.edu/humanresources/home/benefits>.

UAB employees who wish to become full time graduate students and continue to work part time cannot work more than 10 hours per week outside their commitment to meet the requirements of their pre-doctoral program.

UAB employees who enroll in a Ph.D. program and continue to work full time must meet the following requirements:

1. Are not eligible to be supported by a training grant
2. Cannot be simultaneously supported by a UAB Graduate Assistantship/Traineeship
3. Thesis or dissertation work may not be initiated until the student enrolls in a program (i.e. data generated by the employee/student

prior to enrollment that has been submitted for publication or published cannot be included in a thesis or dissertation)

4. Must meet the same set of program requirements as all other students
5. The dissertation committee is responsible for assuring that these stipulations are met
6. The Program Director and dissertation committee must agree in writing to a protracted course of study\*

## Equal Opportunity Policy

UAB administers its educational programs and activities, including admission, without regard to race, color, religion, sex, sexual orientation, age, national origin, disability unrelated to job performance or Vietnam-era or disabled veteran status. The full text of this policy can be found: <http://sppublic.ad.uab.edu/policies/Pages/default.aspx>.

## Office of Graduate Admissions

### Mailing Address for Documents and Credentials:

G03 Lister Hill Library  
1720 2<sup>nd</sup> Avenue South  
Birmingham, AL 35294-0013

### Physical Address:

1700 University Boulevard  
Birmingham, Alabama 35294-0013  
(205) 934-8227  
[gradschool@uab.edu](mailto:gradschool@uab.edu)

# Academic Progress

## Graduate Credit

For purposes of academic accounting, credits expressed in “semester hours” are assigned to each course. One semester hour of lecture course credit is awarded for 13-15 contact hours per semester. One semester hour of laboratory credit is awarded for approximately 30 hours of work in the laboratory. Students may not earn “credit by examination” at the graduate level.

A graduate student’s earned semester hours include all hours in which a grade of C or better or a grade of P in a pass/not pass course was earned. A graduate student’s attempted semester hours include all hours for which a student earned a grade of A, B, C, F, P or NP.

## Transfer Credit

Previously earned graduate credit with a grade of B or above while enrolled at another regionally accredited graduate school may be eligible for transfer into the student’s current degree program if it has not been applied toward another degree (either at UAB or elsewhere). In addition, credit may be awarded for non-collegiate courses in accordance with American Council on Education recommendations and approval of the appropriate department chair and dean. All transfer credit requests must be initiated by the student and require the approval of the graduate program director and the Graduate School. Transfer of Credit forms are available online at <http://www.uab.edu/graduate/online-forms>. Completion of this form does not guarantee that the transfer credit will be granted. No more than 12 semester hours of graduate credit can be transferred to UAB. Students wishing to request an exception to the transfer credit hour

limit must receive the approval of the program director, department chair, and Graduate School Dean. Once transfer credit has been approved, it will be included in the calculation of the grade point average in the student’s current UAB program.

In programs offered jointly by UAB and other universities, all graduate credits earned in the program at a cooperating university are eligible for transfer to UAB. If a student earns credit in one UAB graduate program and is later admitted to another program, unused credits from the previous program, if applicable, are eligible for consideration for transfer into the current program.

## Grading and Grade Point Average (GPA)

The grade of A indicates superior performance, B indicates adequate performance, and C indicates performance only minimally adequate for a graduate student. Any graduate student completing a course at the 500 level or above with a performance below the C level will receive a grade of F; the Graduate School does not use the grade of D. In some graduate programs, a grade of C is a failing grade. It is the student’s responsibility to know and abide by program grading requirements which may be more stringent than that of the Graduate School.

Four (4.0) quality points are awarded for each semester hour in which an A is earned, three (3.0) quality points are awarded for each semester hour in which a B is earned, and two (2) quality points are awarded for each semester hour in which a C is earned. No quality points are awarded for a grade of an F. A graduate student’s grade point average (GPA) is determined by dividing the total quality points awarded by a student’s semester hours attempted at the graduate level. Students can view their cumulative GPA in BlazerNET and can view their term GPA on their transcript which is also available in BlazerNET.

For courses designated as pass/not pass, a grade of P (passing) signifies satisfactory work. A grade of NP (not passing) indicates unsatisfactory work although there is no penalty assessed with respect to the grade point average (GPA).

## Temporary Grade Notations

If an instructor does not submit a grade at the end of a semester, a temporary grade of “N” (no grade reported) will be recorded. A grade of N does not positively or negatively impact a student’s GPA. However, if no permanent grade has been reported by the end of the following semester, an F will automatically be entered in the student’s academic record for the course.

The temporary notation of “I” (incomplete) may be reported at the discretion of the instructor to indicate that the student has performed satisfactorily in the course but, due to unforeseen circumstances, has been unable to finish all course requirements. An incomplete is never given to enable a student to raise a deficient grade. This notation should not be used unless there is reasonable certainty that the requirements will be completed during the following semester because, at the end of the next semester, the incomplete automatically changes to an F if it has not been replaced with a letter grade. In highly unusual circumstances, a student may request an extension of time to complete the requirements. This request must be submitted in writing in advance of the time when the grade automatically changes to an F because the approval of the instructor, graduate program director, and the Graduate School are all required.

## Academic Standing

It is critically important that graduate students at UAB understand both the Graduate School's and their program's academic standing policy and that they are aware of their own academic standing at all times. For a student to maintain good academic standing in the Graduate School, they must maintain a cumulative grade point average (GPA) of at least 3.0 (B average) and an overall satisfactory performance on pass/not pass courses. Satisfactory performance on pass/not pass courses is defined as earning at least as many hours of P as of NP grades.

A degree-seeking or non-degree-seeking graduate student, who, at the end of any semester, fails to meet the criteria to maintain good academic standing will be placed on academic probation. Students on academic probation must re-establish good academic standing within the next two semesters during which they are enrolled at UAB. Failure to reestablish good academic standing at the end of their second term of enrollment while on academic probation will result in academic dismissal from the UAB Graduate School.

The rules stated above govern academic probation and dismissal, administered by the Graduate School. Individual graduate programs may establish and administer program probation and dismissal governed by more stringent requirements. In general, a student's retention in a specific graduate program is contingent on the faculty's belief that the student is likely to complete the program successfully. If the faculty ceases to hold this belief at any point, the student may be dismissed from the program. It is a graduate student's responsibility to be aware of and abide by program academic standing requirements in addition to the general academic standing policy in the Graduate School. Program probation and dismissal policies preempt the Graduate School policies.

## Repeated Courses

Graduate students may repeat a course one (1) time in an effort to improve grades and/or to improve understanding of the course content only with the permission of the graduate program. All courses taken and all grades earned are permanently recorded on the student's transcript. Both grades will also be calculated in the student's GPA unless the Grade Replacement policy is applied; however, a student is only able to earn credit hours for the same class one time. Students wishing to repeat a course more than one time should seek approval of both their program director and the Graduate School. **Graduate programs may choose to not allow students to repeat courses.**

## Grade Replacement

A graduate student who repeats a course taken at UAB and earns a better grade the second time may request a grade replacement in which the grade for the first course be excluded from their GPA calculation. The grade replacement policy may be used a maximum of two (2) times, only once for any course, which allows a student to use grade replacement for two different courses. **Graduate programs reserve the right to not allow grade replacement or to allow less than the Graduate School's maximum number of grade replacements. In addition, individual programs may have course repeat and grade replacement policy rules in addition to those of the Graduate School.**

If approved, the student's transcript will show both the original grade and the course repeat grade; however, the first grade will be excluded from the student's GPA calculation and, only the grade points and credit hours earned in the repeated courses will be counted toward degree completion. Once a course grade is replaced, the decision is irrevocable. In accordance with the UAB Academic Honor Code, any course grade of

F for academic misconduct supersedes any other grade or notation for that class and therefore is not eligible for grade replacement.

It is the student's responsibility to notify the Graduate School of their request to apply the grade replacement policy to a repeated course as the process is neither automatic nor guaranteed. The grade replacement policy requires approval of the graduate program director and the Graduate School. Grade replacement requests must be made prior to application for degree. The grade replacement policy can only be applied to grades earned at UAB and may not be applied after the student has graduated.

The Grade Replacement Request form is available online at <http://www.uab.edu/graduate/graduate-school-quicklinks/online-forms>.

## Grade Changes

Final grades for an I (Incomplete) should be submitted no later than the grade submission deadline of the semester after the notation was originally awarded; Incomplete not changed by that time will convert to Fs. In general, grades submitted by graduate faculty members are not subject to change by reason of revision of the teacher's judgment; nor are submitted grades to be revised on the basis of a second trial (e.g., a new examination or additional work undertaken or completed). Grade changes submitted in order to correct an error in computation or transcription must be made within two semesters after the grades were originally submitted. These grade changes must be submitted via BlazerNET and require the faculty member's statement as to the reason for the change, the approval of the department head, and the approval of the dean of the school in which the course is taught.

## Time Limitations

Graduate students are generally expected to complete all degree requirements within **5 years of matriculation for masters and 7 years of matriculation for doctoral students**. One extension of these time limits can be requested when mitigating circumstances preclude completion of requirements within the time limit. The request for an extension must include a written and signed completion plan outlining the timeline for degree completion. Instructions for preparing a completion plan are available on the Graduate School website at <http://www.uab.edu/graduate/graduate-school-quicklinks/online-forms>. Time limit extension requests require the approval of the student's dissertation committee (if applicable) as well as graduate program director and must be presented in writing to the Dean of the Graduate School for consideration and approval. Masters courses taken more than 5 years before graduation and doctoral courses taken 7 years before graduation will not be applied toward a degree without the approval of the graduate program director and Graduate Dean.

## Academic Ethics & Misconduct

Graduate students at UAB have joined a distinguished academic community that is guided by a conviction in the worth of knowledge and its pursuit. By virtue of their membership in this community, they accrue many benefits—among them, access to the ideas and materials of others. Graduate students not only learn from others but also engage in the pursuit of new knowledge and, in some instances, teach or provide service to others. Being a member of an academic community and functioning in multiple roles in the community carries with it certain responsibilities.

As members of an academic community, students, faculty, and administrators share a responsibility to seek truths and communicate

them to others. As we pursue knowledge and encourage learning, we acknowledge the need for a free exchange of ideas and recognize the importance of listening to and maintaining respect for the views of others. We must always aspire to learn, apply, and communicate to others the best scholarly standards of the disciplines in which we are involved. High scholarly standards demand high ethical standards.

We must commit to learning and communicating the best ethical standards and their application to our disciplines. In interactions with others, we must demonstrate respect for them as individuals, give credit for significant academic or scholarly assistance, and respect the confidential nature of some exchanges. We must adhere to the highest standards of academic conduct, avoiding those acts of misconduct and dishonesty that undermine the purposes of the academic community.

All UAB students are expected to be familiar with the UAB Academic Honor Code as well as any honor codes that are specific to their schools or disciplines. The code represents a commitment to integrity in the academic community and a respect for an individual's educational endeavors:

*I have read and, by choosing to become a member of the UAB academic community, accept the UAB Honor Code. I understand that violation of this code will result in penalties as severe as expulsion from the university. I promise and confirm that I will not, at any time and under any circumstances, involve myself with abetting, cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at the University of Alabama at Birmingham.*

## Conduct and Complaints

### Student Conduct

The university expects mature and honorable behavior from every student and reserves the right to take appropriate disciplinary action when such behavior is not forthcoming.

### Academic Conduct

All UAB students are expected to be familiar with the UAB Academic Honor Code as well as any honor codes that are specific to their schools or disciplines.

The code represents a commitment to integrity in the academic community and a respect for an individual's educational endeavors:

*I have read and, by choosing to become a member of the UAB academic community, accept the UAB Academic Honor Code. I understand that violation of this code will result in penalties as severe as expulsion from the university. I promise and confirm that I will not, at any time and under any circumstances, involve myself with abetting, cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at the University of Alabama at Birmingham.*

### The UAB Academic Honor Code

UAB expects all members of its academic community to function according to the highest ethical and professional standards. Students, faculty, and the administration of the institution must be involved to ensure this quality of academic conduct. Academic misconduct undermines the purpose of education. Such behavior is a serious violation of the trust that must exist among faculty and students for a university to nurture intellectual growth and development. Academic

misconduct can generally be defined as all acts of dishonesty in an academic or related matter.

Academic dishonesty includes, but is not limited to, the following categories of behavior:

**ABETTING** is helping another student commit an act of academic dishonesty. Allowing someone to copy your quiz answers or use your work as their own are examples of abetting.

**CHEATING** is the unauthorized use or attempted use of unauthorized materials, information, study aids, the work of others, or computer-related information.

**PLAGIARISM** means claiming as your own the ideas, words, data, computer programs, creative compositions, artwork, etc., done by someone else. Examples include improper citation of referenced works, the use of commercially available scholarly papers, failure to cite sources, or copying another person's ideas.

**FABRICATION** means presenting falsified data, citations, or quotations as genuine.

**MISREPRESENTATION** is falsification, alteration, or the misstatement of the contents of documents, academic work, or other materials related to academic matters, including work substantially done for one class as work done for another without receiving prior approval from the instructor.

Violations of the UAB Academic Honor Code are punishable by a range of penalties, from receiving a failing grade on an assignment to an F in the course to dismissal. Any course grade of F for academic misconduct supersedes any other grade or notation for that class. Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student's performance prior to withdrawal if the violation is substantiated.

### Procedure for Suspected Violation

In the event of a suspected violation of the Academic Honor Code, UAB follows this procedure:

1. Upon reaching the conclusion that academic dishonesty may have occurred and that action is warranted, the instructor should inform the student of the charge as soon as possible. The student has the right to hear the instructor's reasons for making the charge, to inspect all relevant evidence in the instructor's possession, and to respond to the charge. Based on the student's response and all the evidence, the instructor will determine if a penalty is appropriate. If a penalty is deemed appropriate, the instructor will inform the student of the action to be taken. If the student is not in agreement with the findings or the penalty, the instructor will provide the student with a written statement of the action taken and the basis for it. A copy of this letter will be sent to the chair of the department.
2. Within two weeks of this notification of a judgment of academic dishonesty, the student may appeal the instructor's decision by letter to the chair of the department or his/her designated representative. The chair, acting expeditiously, should take testimony from the student, the instructor, and all appropriate witnesses and make a decision. If the chair reverses the finding of academic misconduct, the instructor must reexamine the work in question and assign credit without prejudice. In the event that the chair is the instructor in the course, the dean will replace the chair in the appeal process.

3. In cases where a grade of F is assigned in the course and the student has utilized the appeal process described above (in section 2), the student has two weeks to appeal the decision by letter to the dean of the school responsible for the course. The dean should acknowledge receipt of the student's appeal and inform the student of the course of action within 10 working days of the date the appeal is received in the dean's office. At the dean's discretion, an advisory panel may be appointed to study the appeal and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, the final decision. The decision of the dean is final.
4. In cases where the final decision concerning an academic misconduct charge is an F for the course, a letter to this effect will be sent to the Office of the Registrar and be kept on file. The course repeat policy will not apply to course grades resulting from instances of academic misconduct. In these cases, the grades of F received will be computed in the UAB grade point average.

A student who has received the grade of F for two instances of academic misconduct will be expelled from the university. Under certain circumstances, a student may be expelled on the first offense. The student will be duly informed of the pending expulsion and will be provided the opportunity to be heard. The student has two weeks after notification to file a request for an appeal hearing with the Office of the Provost. The ad hoc appeals committee will consist of two people designated by the Provost, one student appointed by the President of the USGA, and two faculty members appointed by the chair of the Faculty Senate. The Provost will designate the person to serve as chair who will coordinate and preside at all meetings. Students expelled from UAB for academic misconduct will have that noted on their transcripts.

In addition, students should consult the policies of the school/program in which they are enrolled to determine school/program guidelines and penalties regarding academic misconduct and suspension for academic misconduct. Schools that suspend a student on the first offense may post this offense on the student's UAB academic record.

A student suspended from a UAB school for academic misconduct will have a hold placed on his/her registration and will not be permitted to enroll in another UAB school without that school's permission. Some UAB programs have policies preventing enrollment of students with past academic misconduct offenses.

Note that individual schools may have academic misconduct rules in addition to the above.

## Non-Academic Conduct

Your first priority at UAB is to get a great education, plain and simple. The Non-Academic Conduct Policy, maintained by the office of Student Engagement, provides the guidelines that protect your chance at getting that top-quality education by setting the standard for what it means to be a successful student.

Non-Academic Student Conduct Policy

Student Engagement, specifically regarding student conduct is one of many channels that the university can use to foster the personal development of its students. In cases where a student engages in non-academic misconduct, the conduct process is also an approach that we use to protect the safety of the university community. While the conduct process does adjudicate misconduct, it is not a legal system. The conduct process does not use the same procedures, burdens of proof, or rules of evidence as the legal systems. In order to maintain an educational tone,

the university takes steps to ensure that the process is as non-adversarial as possible, while still safeguarding the rights of students.

The non-academic misconduct process is an integral part of the educational mission and goals of UAB and Student Life. The Office of Student Engagement oversees and implements the non-academic misconduct process. The nonacademic misconduct process is designed to provide and help maintain an educational atmosphere with emphasis on developing individual understanding and acceptance of personal and social responsibilities; creating a sense of belonging within a welcoming environment; and challenging and supporting students to reflect, integrate, and act upon their UAB experience.

Report a violation of the Code of Conduct

## Student Complaints

### Academic Matters

Judgments on academic matters are most appropriately made by individuals with expertise in the particular academic discipline involved. For this reason, complaints by students on academic matters are the responsibility of the department and school involved. Normally, such complaints can be resolved quickly through discussion with the faculty directly involved. In rare situations where such resolution does not occur, the student should contact the chair of the appropriate academic department to file a formal grievance. The student's grievance should be submitted in writing and accompanied by any appropriate documentation. Grievances should be submitted at the earliest possible time. Consideration will not be given to any grievance submitted later than the end of the term immediately following the term in which the matter in question arose. The department should acknowledge the date the grievance is received and provide notice to the student of when an answer may be expected. It is the responsibility of the department chair to provide an answer to the student within 10 working days. If the matter cannot be settled within the department, the student has 10 working days from the day the department's response is received to appeal to the dean of the school in which the department is located. The dean should acknowledge receipt of the student's appeal and inform the student of the course of action within 10 working days of the date the appeal is received in the dean's office. At the dean's discretion, an advisory panel may be appointed to study the disagreement and make a recommendation to the dean. However, it is the responsibility and prerogative of the dean alone to make, in a timely manner, a decision on any academic disputes which have not been resolved at lower levels, and the decision of the dean is final.

### Non-Academic Matters

When complaints on non-academic matters cannot be settled by the persons directly involved, a written complaint should be forwarded to the appropriate office. If the administrative officer is unsuccessful in resolving the complaint, it may then be forwarded in writing to the Provost or a designee for further consideration. For specific information concerning the procedures and processes for non-academic complaints and grievances, contact the Office of Student Engagement or visit the following web site <http://www.uab.edu/students/sarc/>

## Graduate School Appeals Board (GSAB)

A. Purpose:

The purpose of the GSAB is to review appeals brought by graduate students of decisions made by university representatives concerning:

1. retention in graduate programs,
2. charges of academic misconduct or dishonesty,
3. selected other issues related to graduate education as deemed appropriate to forward to the GSAB by the Graduate Dean, the provost, or other university officials.

*B. Limitations:*

The GSAB **will not** review:

1. appeals of course grades,
2. appeals of a dismissal based on lack of adequate progress toward meeting degree requirements,
3. appeals for which the student has not previously fully used all other applicable appeal or review processes,
4. appeals filed more than 30 calendar days from the date of a prior review or 30 calendar days from the date of receiving notification of an action or decision,
5. misconduct in research which falls under the Policy Concerning the Maintenance of High Ethical Standards in Research and Scholarly Activities.
6. grievances brought against the faculty of a specific program. Program faculty report to the chairpersons and deans in the schools in which they hold their primary appointments. Accordingly, it is the responsibility of those chairpersons and deans to adjudicate at the school level any appeals brought by graduate students against their faculty. Decisions made at the school level in such cases will not be reviewed by the Graduate School Appeals Board.
7. grievances or appeals brought forth by masters (Plan II) students in professional/practice-based programs. These will be adjudicated exclusively within the school in which the program is housed. Any questions related to whether a program is considered professional/practice-based should be referred to the program's director.

*C. Composition:*

The GSAB will consist of five members of the graduate faculty and three graduate students in good standing, all broadly representative of the graduate

programs in the university. The GSAB will be chaired by a designee of the Graduate Dean. Members of the committee will be appointed on an ad hoc basis as needed by the Graduate Dean. The Graduate School will provide support personnel for the board to record proceedings of hearings.

*D. Meetings:*

The GSAB will meet as soon as possible after assembly by the Graduate Dean to adjudicate a pending appeal. A quorum for a meeting will be at least five persons: three graduate faculty members and at least two graduate student members. Any member of the GSAB may disqualify himself or herself. After notification of the Board composition, the student bringing the appeal may disqualify one faculty and one student member of the board. If the disqualification of board members results in absence of a quorum, the process will be suspended until the Graduate Dean can appoint additional members.

*E. Notification:*

The chair of the GSAB will notify the student bringing the appeal and the student's program director of the decision reached by the GSAB in the initial review of the appeal—specifically, whether an appeal will be heard. If a hearing is to be held, the chair will notify the student and student's program director of the date, time, and place for the hearing. The chair of the GSAB is responsible for notifying the Dean of the Graduate School of the findings and recommendations reached by the GSAB after the hearing. The Dean of the Graduate School will notify the student and student's program director of his or her action.

*F. Authority:*

The GSAB may recommend affirming or reversing the decision being appealed and making such recommendations for further actions as seem appropriate. In the course of any hearing, the GSAB is authorized to request additional evidence from, or the appearance of, any student, faculty or staff member, or other employee of the university, or other individual as a witness. The GSAB shall have final authority in procedural matters. The GSAB will forward recommendations to the Dean of the Graduate School along with a record of the hearing proceedings. The Dean will make a final independent decision, taking into account the findings and recommendations of the GSAB and the records of the hearing. The Dean will inform the relevant parties and the GSAB of the decision in writing within 14 calendar days of receiving the GSAB recommendation.

## Procedures

*A. Filing an appeal:*

Before a request for an appeal is accepted by the GSAB, the normal channels for resolving disputes must have been followed. First, the student should consult with their advisor to resolve the issue at that level. If the issue is not then resolved, the student should seek out the program director or department chair to request a resolution. If the program director and department chair have not been able to resolve the appeal or the action still needs to be pursued, it is then appropriate to pursue the issue with the academic college or school dean. At that point either the Honor Code of the school in which the student is enrolled should be invoked, or if no school based Honor Code exists, the Honor Council procedure described previously should be followed. If the concern has not been resolved to the satisfaction of the student at any one of these levels, an appeal to the GSAB may then be pursued.

All requests for appeals to be considered by the GSAB must be submitted to the Dean of the Graduate School, in writing, on the approved form (available in the Graduate School office and online) along with supporting documents and any other pertinent evidence. The written appeal must specify the grounds for the appeal. It is the responsibility of the student making the appeal to demonstrate to the GSAB that grounds for the appeal exist.

The Dean of the Graduate School will notify those individuals whose decisions are being appealed and will request relevant information. Information and evidence will be transmitted to The Graduate School Dean and to all members of the GSAB. Any additional evidence brought to the hearing is subject to acceptance or rejection by the GSAB. All information submitted becomes part of the permanent record of the GSAB hearing record maintained by the Graduate School.

*B. Initial review of appeals:*

The GSAB will be convened by the chair to conduct an initial review of the appeal to determine whether the appeal is subject to dismissal or

if further action by the GSAB is warranted. Appeals that fail to set forth grounds for a full review by the GSAB shall be dismissed. The GSAB will consider appeals when:

1. all other levels of appeal have been exhausted.
2. the student can show grounds that he or she was previously denied a fair hearing.
3. the decision being appealed is not supported by substantial evidence.
4. the sanction being imposed is beyond the authority of the personnel involved.
5. the sanction or action is unduly severe or disproportionately harsh in comparison to similar cases.

When the GSAB determines that a graduate student should be afforded a hearing on an appeal, the chair of the GSAB shall give written notice to all parties involved in the appeal, allowing no less than one week of preparation time before the hearing.

#### C. Hearings:

All hearings by the GSAB shall be subject to the following requirements:

1. Any additional materials requested by the GSAB at the time of the initial review to be considered at the hearing shall be made available to all parties prior to the hearing.
2. Parties to the appeal have the right to be present and hear all arguments and oral statements made to the GSAB committee.
3. Parties to the appeal shall make arguments, present oral statements and written documents, and question witnesses with regard to any issues of fact relevant to the grounds for appeal.
4. Hearings shall not be adversarial in nature and shall be conducted in a manner conducive to ascertaining the facts of the case upon appeal.
5. The GSAB may establish time limitations for presentations before the board.
6. Hearings shall be closed to the public.
7. GSAB members may address questions to any person giving testimony before the board.
8. In hearings involving more than one student, a single hearing may be scheduled for each.
9. It shall be the responsibility of the GSAB chair, together with the recording secretary, to see that the integrity of the record is maintained.
10. The chair shall preside and rule on matters of procedure and evidence.
11. The chair shall have the right to dismiss anyone from the hearing should his or her conduct become disorderly.

#### D. Findings, decisions and recommendations of the GSAB:

Upon completion of hearings, the GSAB shall meet in closed session for deliberations. A simple majority vote of the GSAB is required to substantiate all findings and recommendations. In determining its findings and recommendations, the board shall concern itself only with whether reasonable people, acting on the available evidence, could have made the same decision or taken the same action as the one being appealed.

The GSAB shall prepare written findings addressing all issues presented in the appeal and shall make a recommendation that indicates whether the appealed decision or sanction should be affirmed, set aside, or

modified. The GSAB may also make recommendations, if appropriate, for further actions by university authorities.

The Dean of the Graduate School has 14 calendar days to act upon the findings and recommendations of the GSAB. If no action is taken within the 14 days, except when extenuating circumstances justifying a delay are involved, the findings and recommendations of the GSAB will be final. Further appeal is not available within the university.

The application for a hearing before the GSAB is available in the Graduate School office, Lister Hill Library, Suite G03, and at the Graduate School's Web site (<http://www.uab.edu/graduate/images/acrobat/forms/acadappeal.pdf>).

## Enrollment

### Registration

Students must register for all courses for which they wish to earn graduate credit. The UAB class schedule is accessible via BlazerNET located at <http://www.uab.edu/blazernet>. The class schedule lists the courses offered each semester and provides full details on prerequisites, registration dates, and procedures. Students are able to register for courses as well as adjust their schedule by adding and dropping courses through the end of the drop/add period which is denoted on the academic calendar.

To be enrolled as a full-time graduate student, a student must register for at least 9 semester hours in the fall, spring, and summer semesters. To be classified as a half-time graduate student, they must register for at least 5 semester credit hours in the fall, spring, and summer semesters. Degree-seeking students who wish to receive financial aid must be enrolled at least half-time.

Certain funding sources (e.g., training grants, individual grants and fellowships) may have additional enrollment requirements that must also be satisfied. In addition, student loan recipients must satisfy certain minimal enrollment requirements to defer repayment. Students should consult with their funding source or the Financial Aid Office to determine these requirements as they apply to their specific situation.

### Auditing Graduate Courses

Graduate students who have been formally admitted as either a non-degree or degree-seeking student may audit courses available for graduate credit with the permission of the instructor and payment of appropriate fees. Courses taken for audit credit are not counted toward the hours required for full-time status, are not counted as earned hours, are not assigned a letter grade, and do not impact a student's GPA. Provided the instructor's requirements are met, the course will appear on the transcript with the notation AU.

The Permission to Audit Graduate Level Coursework form, which can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms), should be submitted to the Graduate School for approval prior to registration.

### Withdrawal from Courses

Graduate students are expected to complete courses for which they have registered, unless unusual and unforeseen circumstances require withdrawal. The procedures for withdrawal are specified on BlazerNET.

**Mere cessation of class attendance does not constitute withdrawal, either academically or for tuition purposes.** Students who wish to withdraw from a class or classes after the drop/add period must proceed

with the withdrawal in BlazerNET no later than the last day to withdraw for the semester, which is denoted on the Academic Calendar calendar at, [www.uab.edu/students/academics/academic-calendar](http://www.uab.edu/students/academics/academic-calendar). If a student follows the appropriate procedures to withdraw in BlazerNET, a grade of "W" will be entered on the transcript. Withdrawal from a course after the withdrawal deadline requires an academic appeal, which can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms), signed add/drop form, and documentation of extenuating circumstances. Academic appeals should be submitted directly to the Graduate School.

## Leave of Academic Absence

A graduate student experiencing extenuating circumstances may request a leave of academic absence for up to one (1) academic year. The Request for Leave of Academic Absence form can be found at the Graduate School Web site at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms) and requires approval by the student's graduate program director and the Graduate School. Leave of Absences are term based and students' records will only be updated with a leave of absence status in a term in which they were not registered. If a student is receiving funding and fails to meet the requirements of their assistantship, their stipend can be ended at any time throughout the semester.

## Course Numbering System

The scholastic level of UAB courses is indicated by the century number. Courses numbered 500 and above are graduate and post baccalaureate courses. Courses numbered 500-599 are available to upper-level undergraduate and beginning graduate students. Courses numbered 600 and above are for available only to graduate students. Those numbered 600-699 are intended primarily for students at the master's level, with 698 reserved for nonthesis research and 699 reserved for thesis research. Courses numbered 700-799 are primarily for students at the doctoral level, except in the School of Education where the numbers from 700-729 are reserved for courses leading to the degree of Educational Specialist (Ed.S.). The number 798 is reserved for nondissertation research and 799 for dissertation research. Seminars, practica, individual studies and projects, internships, and residencies will generally carry numbers in the upper range of these centuries.

## Undergraduates Seeking Enrollment

UAB undergraduate students may be allowed to enroll in a graduate course with the approval of their academic advisor, their undergraduate program director, the graduate course instructor, and the graduate program director. The Undergraduate Student Request for Enrollment in Graduate Level Coursework form can be obtained online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms). Credits earned by undergraduate students may be applied to either an undergraduate degree or a graduate degree, but not both. Students must indicate which type of credit they would like to earn on the request form.

## Withdrawal from the UAB Graduate School

Students who wish to withdraw from the University of Alabama at Birmingham must submit a written request to the Graduate School expressing their intent to withdraw. Should a student who has withdrawn from the Graduate School decide they would like to return to the university, they must apply to the Graduate School as a degree-seeking student and be admitted by the program rather than completing a readmission form.

# Completion of a Degree

## Steps Toward Earning a Master's Degree

1. Admission to master's degree program
2. Selection of faculty advisor
3. Maintenance of academic good standing
4. Appointment of graduate study committee— Plan I (Thesis) only
5. IRB and/or IACUC approvals obtained and renewed annually
6. Admission to candidacy—at least one semester before graduation is expected— Plan I (Thesis) only
7. Application for Degree—See [www.uab.edu/graduate/deadline-dates](http://www.uab.edu/graduate/deadline-dates) for each semester's deadline
8. Production of preliminary version of thesis (Plan I only)
9. Defense of thesis (for Plan I only) (see [www.uab.edu/graduate/deadline-dates](http://www.uab.edu/graduate/deadline-dates))
10. One PDF of the defended committee- approved thesis (Plan I only) submitted online no later than 2 weeks (10 business days) after the published public defense deadline
11. Conferring of degree

## Faculty Advisor

Immediately after a degree-seeking student enters the UAB Graduate School, a member of the faculty of the graduate program to which the student has been admitted should be assigned to serve as the student's advisor. The assignment may be a temporary arrangement. The student and the advisor should confer about courses and any special work to be taken on the basis of the student's previous experience and the requirements of the graduate program.

## Plan I or Plan II

The Graduate School recognizes two principal paths, known as Plan I and Plan II, that lead to the master's degree. Where both Plan I and Plan II are available within the same graduate program, an early and meaningful choice should be made by the student, in close consultation with the student's advisor. A change in choice of plans requires the approval of the program director.

Plan I requires the completion, in good academic standing, of at least 24 semester hours of appropriate graduate work and 6 semester hours of thesis research for a total of at least 30 semester hours, with the presentation of an acceptable thesis embodying the results of original research work.

Plan II may not require research and does not require a formal thesis. A minimum of 30 semester hours of appropriate graduate work must be completed in good academic standing. Although thesis research is not required as part of a Plan II course of study, the student is often expected to gain insight into the techniques of problem posing and problem solving and to use these insights to prepare a written report.

## Graduate Study Committee

Traditionally, graduate study is highly flexible and individualized. A specific plan of study should be developed as soon as possible upon matriculation. Graduate study committees, often chaired by the student's advisor, are appointed to guide the student toward their degree. Some graduate programs do not use a graduate study committee for Plan II students, particularly when flexibility in the course of study is limited by accreditation and other external constraints. Graduate study committees

should consist of at least three Graduate Faculty members, each of whom must have credentials equal to or exceeding that of the degree that the student is pursuing, must have been approved by the Graduate School Dean for Graduate Faculty status, and should be able to contribute some relevant insight and expertise to guide the student. In addition, one committee member should be from outside the student's graduate specialization.

Recommendations for graduate study committee membership are submitted by the advisor and the student to the graduate program director, who subsequently submits these recommendations to the Graduate School Dean. Changes to a student's committee must be submitted on the Request to Change Graduate Study Committee form available at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms). Graduate faculty appointees and instructions for requesting new appointments are available at [www.uab.edu/graduate/gradfaclist](http://www.uab.edu/graduate/gradfaclist). New Graduate Faculty appointments should be requested by the department and approved by the Graduate School Dean prior to being listed on the recommendation form to serve as a member of a student's committee. Graduate Faculty status definitions are available at [www.uab.edu/graduate/definitions-of-graduate-faculty-categories](http://www.uab.edu/graduate/definitions-of-graduate-faculty-categories).

## Minimum Course Credit Requirements

The Graduate School requires a minimum of 30 semester hours for students in masters programs. Program requirements for course work may exceed the Graduate School minimum but may not be less than the Graduate School minimum.

- Plan I requires the completion of at least 24 semester hours of appropriate graduate work, of which a maximum of 9 hours of non-thesis research (i.e. 698) can be applied, and 6 semester hours of thesis research (i.e. 699) over a minimum of one semester in candidacy.
- Plan II requires the completion of 30 semester hours of core graduate coursework directly related to the discipline. A maximum of 9 semester hours of non-thesis research (i.e. 698) may be applied.

## Additional Program Requirements

In consultation with the faculty, the director of each graduate program will specify any additional requirements, such as a reading knowledge of a foreign language or a working knowledge of statistics, which are considered essential to mastery of the academic discipline. Such requirements become conditions for the completion of the degree. The program may also adopt a system of examinations that the student must pass at various points in the program.

## Admission Into Degree Candidacy (Plan I Only)

Admission to candidacy is a formal step acknowledging that the student has been performing well and is likely to complete the degree. Candidacy admission is recommended by the student's graduate study committee and approved by the graduate program director and the Graduate School Dean. For Plan I students, admission should occur when the student has obtained an adequate background and has provided the committee with an acceptable proposal for thesis research. In addition, the Vice President for Research requires that all students engaging in research complete the applicable Responsible Conduct in Research requirements which can be found here. Responsible Conduct in Research requirements must be completed within four (4) years prior to applying for candidacy as they expire after that time. Students do not

have to complete all coursework prior to admission to candidacy if the graduate study committee ascertains that the student has an adequate foundation in the discipline. Students must be in good academic standing to be eligible for admission to candidacy, and admission must take place no later than one semester before the expected graduation. Before being admitted to candidacy, students must complete a Research Compliance Verification form and attach photocopies of the appropriate assurance letters and/or forms. Students must be admitted to candidacy before they can register for thesis research hours (i.e., 699). Applications for Admission to Candidacy are available online at [www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms).

## IRB and IACUC Approval

If a student's research involves human or animal subjects, approval from the IRB or IACUC must be documented before admission to candidacy can be approved. IRB/IACUC approvals must be kept current until the research is completed. For ways in which students can be added to a protocol, refer to the Tip Sheet for Students Involved in Research Involving Human or Animal Subjects. The IACUC form must display the appropriate research protocol number.

## Application for Degree/Certificate

Candidates for a master's degree must notify their program and the Graduate School of their intent to graduate by submitting the Application for Degree/Certificate by the appropriate deadline. The application is accessible through BlazerNET by clicking Links/Forms and selecting Apply for Graduate Degree/Certificate. Note that some programs may have an earlier submission deadline than the Graduate School so students should check their department/program website for more information. Upon receipt of the Application for Degree/Certificate, both the graduate program and the Graduate School will audit the students' requirements to ensure the degree can be awarded. UAB's Graduation Planning System (GPS) contains a personalized degree audit which includes all courses required to earn the degree and will display completed, in-progress, and outstanding requirements. GPS is accessible through BlazerNET by clicking the GPS button in the menu on the right side of the page.

Master's students must be registered during the semester in which degree requirements are completed. Plan I students must be registered for at least one (1) hour of 699 research credit during their term of graduation. If degree candidates are covered by the student health insurance policy, hold an assistantship, or have student loans, it may be necessary to register for a prescribed minimum number of credit hours to retain these benefits. Students should check with the appropriate office(s) if retention of these benefits is a concern.

## Thesis

The thesis required under Plan I should present the results of the candidate's original research and the interpretation of those results. The document should also demonstrate the candidate's acquaintance with the literature of the field and the proper selection and execution of research methodology.

The final approved version of the thesis must be submitted as a single PDF for final review no later than 2 weeks (10 business days) following the public defense. Master's students must submit the Approval Form, signed by each committee member and the program director. Signatures of committee members and program directors on the approval form indicate their assurance that they have examined the document and have found that it is of professional quality from all standpoints, including

writing quality, technical correctness, and professional competency, and that the document conforms to acceptable standards of scholarly presentation. The Graduate School is then responsible for ensuring that the final version of the thesis meets the physical standards required of a permanent, published document and for adherence to the requirements stated in the UAB Format Manual (available online at [www.uab.edu/graduate/images/acrobat/forms/theses/FormatManual.pdf](http://www.uab.edu/graduate/images/acrobat/forms/theses/FormatManual.pdf)).

The UAB Publication Agreement form is submitted online. Additional information concerning completing the final steps of the publication process is available online at [www.uab.edu/graduate/submitting-your-thesis-or-dissertation-to-the-graduate-school](http://www.uab.edu/graduate/submitting-your-thesis-or-dissertation-to-the-graduate-school).

If, in the opinion of more than one member of the thesis committee, the student has failed the thesis defense, there is no consensus to pass. The chair of the committee shall notify the student in writing that the thesis fails to meet the requirements of the program and will share the reason(s) for failure. If the student resubmits or submits a new thesis for consideration by their graduate program, at least two members of the new examining committee shall be drawn from the original committee. If the modified or new thesis also fails to meet the requirements of the program, the student shall be dismissed from the graduate program.

If only one of the three committee members dissent, that individual must submit a letter outlining the reasons for their dissent to the student's advisor. The advisor and student may then prepare a rebuttal statement that is submitted, along with the letter of dissent, to the advisory or executive committee of the program for review. The advisory committee can then decide to accept or reject the rebuttal statement. If the rebuttal is accepted, the student is passed on their thesis defense. If the rebuttal is rejected, the advisory committee can recommend to the student or advisor potential steps necessary to remediate the thesis and potentially also the work therein, or the committee can recommend that the student be dismissed from the program.

## Thesis Defense

Under Plan I, the final examination should take the form of a presentation and public defense of the thesis, followed by an examination of the candidate's comprehensive knowledge of the field. The time, date, and location of this examination is reported to the Graduate School via the online Request for Thesis or Dissertation Approval forms and must be (submitted at least 10 days before the public defense). The meeting must be appropriately announced on campus, must be open to all interested parties, **and must take place before the posted semester Thesis or Dissertation defense deadline.**

The final examination for Plan II students should take the form of a comprehensive survey of the candidate's activities in the graduate program. A Plan II final examination is not required in some graduate programs.

## Award of Degree

Upon approval by the Graduate School Dean and payment of any outstanding financial obligations to the university, the President confers students' degrees by authority of the Board of Trustees. UAB does not determine the official degree type awarded as this is governed by the Alabama Commission on Higher Education and the Board of Trustees after receiving a program proposal. Official degree types can be found here. Students' majors will be reflected on their transcript.

## Steps Toward Earning a Doctoral Degree

1. Admission to doctoral degree program
2. Selection of faculty advisor
3. Maintenance of good academic standing
4. Appointment of graduate study committee
5. Passing of comprehensive examination
6. IRB and/or IACUC approvals obtained and renewed annually
7. Admission to candidacy— no later than two semesters before expected graduation
8. Application for degree— by the posted deadline available at <http://www.uab.edu/graduate/deadline-dates>
9. Draft of preliminary version of dissertation
10. Review of the draft by committee members
11. Revisions made to dissertation in response to committee feedback
12. Defense of dissertation (see <http://www.uab.edu/graduate/deadline-dates>)
13. A PDF of the defended committee-approved dissertation to UAB/ ProQuest submission web site --no later than 2 weeks (10 business days) following the published deadline date for the public defense
14. Conferring of the doctoral degree

## Doctoral Degree Overview

The doctoral degree is granted in recognition of scholarly proficiency and distinctive achievement in a specific field of an academic discipline. The first component is demonstrated by successful completion of advanced coursework of both a didactic and an unstructured nature as well as by adequate performance on the comprehensive examination. Traditionally, the student demonstrates the second component by independently performing original research. In certain doctoral programs, performing a major project may be acceptable even though it may not consist of traditional research. However, in all programs, with the exception of DPT and DNP, a dissertation presenting the results of the student's independent study is required.

The Graduate School also recognizes professional doctorates awarded in preparation for the autonomous practice of a profession. Professional doctorates are accredited programs of study usually designed to prepare students for the delivery of clinical services or to assume specific types of administrative responsibilities. Students in professional doctorate programs must demonstrate competence in clinical practice and/or scholarship but are not required to conduct and defend original independent research. In lieu of a dissertation, students in programs designated as professional doctorate programs are required to demonstrate that they are capable of evaluating existing research, applying it to their professional practice, and expanding the body of knowledge on which their professional practice is based. This requirement is often met by the design and completion of a research or scholarly project submitted in writing and presented formally before the faculty in the program.

## Faculty Advisor

Immediately after a degree-seeking student enters the UAB Graduate School, a member of the faculty of the graduate program to which the student has been admitted should be assigned to serve as the student's advisor. The assignment may be a temporary arrangement. The student and the advisor should confer about courses and any special work to

be taken on the basis of the student's previous experience and the requirements of the graduate program.

## Graduate Study Committee

A graduate study committee should be formed as soon as possible upon matriculation to guide the student in a program of courses, seminars, and independent study designed to meet the student's needs and to satisfy program and Graduate School requirements. Doctoral graduate study committees should consist of at least five graduate faculty members, each of whom should be able to contribute some relevant insight and expertise to guide the student and must have credential equal to or exceeding that of the degree the student is pursuing. In addition, one or two committee member(s) should be from outside the student's graduate specialization. In all cases, at least three of the committee must be comprised of UAB Graduate Faculty members. Committee members who are not already UAB Graduate Faculty, must be granted Ad Hoc Graduate Faculty status. Recommendations for graduate study committee composition are submitted by the advisor and the student to the program director, who subsequently submits these recommendations to the Graduate School Dean. Changes to a student's committee must be submitted on the Request to Change Graduate Study Committee form available at <http://www.uab.edu/graduate/online-forms>. Graduate faculty appointments and instructions for requesting new appointments are available at <http://www.uab.edu/graduate/gradfaclist>. New Graduate Faculty appointments should be requested by the department and approved by the Graduate School Dean prior to any faculty member being recommended for placement on a student's committee. Graduate Faculty status definitions are available at <http://www.uab.edu/graduate/definitions-of-graduate-faculty-categories>.

## Minimum Course Credit Requirements

The Graduate School has minimum course credit requirements for students in doctoral programs. Program requirements for course work may exceed the Graduate School minimum but may not be less than the Graduate School minimum.

If entering with a baccalaureate degree, a student is required to earn a minimum of 72 credit hours comprised of the following:

1. Completion of 48 semester hours of coursework prior to candidacy:
  - A minimum of 22 hours of core coursework directly related to the discipline
  - No more than 16 hours of non-dissertation research (i.e. 798) can be counted
  - No more than 10 hours of labs, seminars, or GRD and CIRTL courses can be counted
2. Completion of 24 semester hours of research-based work over a minimum of two semesters in candidacy which can be designated as either:
  - A minimum of 24 semester hours in 799 dissertation research **OR**
  - A minimum of 12 semester hours in 799 dissertation research **AND**, either during or before candidacy, 12 semester hours in other appropriate research-based coursework which has been approved by the graduate student's program

If entering with a previously earned master's degree appropriate to the doctoral degree field, a student is required to earn a minimum of 51 credit hours comprised of the following. These requirements also apply to students with previously earned M.S., D.V.M., D.M.D., D.D.S., etc.:

1. Completion of 27 semester hours of coursework prior to candidacy:
  - A minimum of 15 hours of core coursework directly related to the discipline
  - No more than 6 hours of non-dissertation research (i.e. 798) can be counted
  - No more than 6 hours of labs, seminars, or GRD and CIRTL courses can be counted
2. Completion of 24 semester hours of research-based work over a minimum of two semesters in candidacy which can be designated as either:
  - A minimum of 24 semester hours in 799 dissertation research **OR**
  - A minimum of 12 semester hours in 799 dissertation research **AND**, either during or before candidacy, 12 semester hours in other appropriate research-based coursework which has been approved by the graduate student's program

Up to 12 credits of course work that have not been applied toward meeting the requirements for an earned degree taken at UAB or other institutions may be used to satisfy these course credit requirements upon approval of the graduate program director and the Graduate School Dean. Courses which have been previously applied toward meeting the requirements of another degree are not eligible to satisfy minimum course credit requirements. The student's graduate department or program should provide a course planning curriculum worksheet along with the student's application for degree. This worksheet should detail the courses taken which are intended to be used toward meeting degree requirements.

## Residence Requirement

The nature of doctoral study requires close contact between the student and the faculty of the graduate program, and the individual investigation or other special work leading to the dissertation must be performed directly under the guidance and supervision of a full member of the UAB graduate faculty. The Graduate School requires doctoral students to enroll for a minimum of nine semesters at UAB although individual graduate programs may require a longer period of residence. The Graduate School does not require these nine semesters to be consecutive (i.e. fall, spring, and summer of each year); however, many programs choose to do so and as such, students are responsible for being aware of program specific requirements.

## Additional Program Requirements

In consultation with the faculty, the director of each graduate program will specify any additional requirements, such as a reading knowledge of a foreign language or a working knowledge of statistics, that are considered essential to mastery of the academic discipline. Such requirements become conditions for the completion of the degree.

## Comprehensive Examination

The scholarly proficiency of a doctoral student in the chosen field of study must be evaluated by comprehensive examination. The conduct of these examinations is the responsibility of the graduate program in which the student is enrolled and may consist of either individual examinations in several appropriate areas or a single combined examination. When both written and oral examinations are given, the written examination should precede the oral so that there is an opportunity for the student to clarify any misunderstanding of the written examination questions.

Comprehensive exams should be administered no later than the end of the third year of the student's program.

## Admission Into Degree Candidacy

Admission to candidacy is a formal and important step forward in a student's pursuit of the doctoral degree. By approving admission to candidacy, the graduate student's committee indicates its confidence that the student is capable of completing the proposed research project and the doctoral program. When the student has passed their comprehensive examination, satisfied any program requirements for foreign language proficiency or mastered special research tools, and presented to the graduate study committee an acceptable proposal for dissertation research or special study, the committee will recommend to the Graduate School Dean that the student be admitted to degree candidacy. In addition, the Vice President for Research requires that all students engaging in research complete the applicable Responsible Conduct in Research requirements which can be found here. Responsible Conduct in Research requirements must be completed within four (4) years prior to applying for candidacy as they expire after that time. A student must be in good academic standing to be admitted to candidacy and admission to candidacy must take place at least two semesters before the expected completion of the doctoral program. Students must be admitted to candidacy before they can register for dissertation research hours (i.e., 799).

## IRB and IACUC Approval

If the research involves human or animal subjects, approval from IRB or IACUC must be documented before admission to candidacy can be approved and IRB/IACUC approvals must be kept current until the research is completed. For ways in which students can be added to a protocol, refer to the Tip Sheet for Students Involved in Research Involving Human or Animal Subjects. The IACUC form must display the appropriate research protocol number.

## Application for Degree/Certificate

Candidates for a doctoral degree must notify their program and the Graduate School of their intent to graduate by submitting the Application for Degree/Certificate by the appropriate deadline. The application is accessible through BlazerNET by clicking Links/Forms and selecting Apply for Graduate Degree/Certificate. Note that some programs may have an earlier submission deadline than the Graduate School so students should check their department/program website for more information. Upon receipt of the Application for Degree/Certificate, both the graduate program and the Graduate School will audit the students' requirements to ensure the degree can be awarded. UAB's Graduation Planning System (GPS) contains a personalized degree audit which includes all courses required to earn the degree and will display completed, in-progress, and outstanding requirements. GPS is accessible through BlazerNET by clicking the GPS button in the menu on the right side of the page.

Doctoral students must be registered for at least one (1) hour of 799 dissertation research credit during their term of graduation. If degree candidates are covered by the student health insurance policy, hold an assistantship, or have student loans, it may be necessary to register for a prescribed minimum number of credit hours to retain these benefits. Students should check with the appropriate office(s) if retention of these benefits is a concern.

## Dissertation

The results of a candidate's individual inquiry must be presented in a written dissertation comprising a genuine contribution to knowledge in the particular academic field. The document should also demonstrate the candidate's acquaintance with the literature of the field and the proper selection and execution of research methodology.

Signatures of committee members and program directors on a student's approval forms indicate their assurance that they have examined the document and have found that it is of professional quality from all standpoints, including writing quality, technical correctness, and professional competency, and that the document conforms to acceptable standards of scholarly presentation. The Graduate School is then responsible for ensuring that the final version of the dissertation meets the physical standards required of a permanent, published document and for adherence to the requirements stated in the UAB Format Manual which is available online at <http://www.uab.edu/graduate/images/acrobat/forms/theses/FormatManual.pdf>.

The final committee-approved dissertation must be submitted for final review as a single PDF no later than 2 weeks (10 business days) following the published deadline date for the public defense. One copy of the signed approval form is submitted to the Graduate School office. Additional information concerning completing graduation requirements and the dissertation submission and publication process is available online at <http://www.uab.edu/graduate/theses-and-dissertations-at-uab>. The UAB Publication Agreement, Survey of Earned Doctorates, and Graduate School Exit Survey must also be submitted.

## Dissertation Defense

The dissertation defense should take the form of a presentation and defense of the dissertation work, which may include an examination of the candidate's comprehensive knowledge of the field. The time, date, and location of this examination is reported to the Graduate School via the online Request for Thesis or Dissertation Approval forms and must be submitted at least 10 days before the public defense. The meeting must be open to all interested parties, publicized on the UAB campus, and must take place before the posted semester thesis and dissertation defense deadline. In addition, candidates must be registered during the semester in which the final examination is taken.

If, in the opinion of one or two of the five members of the dissertation committee, the student has failed the dissertation defense, there is no consensus to pass. The chair of the committee shall notify the student in writing that the dissertation fails to meet the requirements of the program and will share the reason(s) for failure. If the student resubmits or submits a revised dissertation for consideration by their graduate program, at least three members of the new examining committee shall be drawn from the original committee. If the revised dissertation also fails to meet the requirements of the program, the student shall be dismissed from the graduate program.

In the event that only one of the five committee members dissent, that individual must submit a letter outlining the reason(s) for their dissent to the student's advisor. The advisor and student may then prepare a rebuttal statement that is submitted, along with the letter of dissent, to the advisory or executive committee of the program for review. The advisory committee can then decide to accept or reject the rebuttal statement. If the rebuttal is accepted, the student is passed on their dissertation defense. If the rebuttal is rejected, the advisory committee can recommend to the student or advisor potential steps necessary

to remediate the dissertation and potentially also the work therein, or the committee can recommend that the student be dismissed from the program.

## Graduate Student Exit Survey

Doctoral graduates are required to take the *Graduate School Exit Survey* as part of graduation requirements. Collecting important information and feedback from graduate students will help to improve the quality of graduate program offerings. After submission of the revised version of a student's final dissertation, they will be contacted via email and provided the secure link to take the electronic survey.

## Award of Degree

Upon approval by the Graduate School Dean and payment of any outstanding financial obligations to the university, the President confers students' degrees by authority of the Board of Trustees. UAB does not determine the official degree type awarded as this is governed by the Alabama Commission on Higher Education and the Board of Trustees after receiving a program proposal. Official degree types can be found here. Students' majors will be reflected on their transcript.

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## Graduate Level Postbaccalaureate or Post-Master's Certificates

Several UAB graduate programs offer Certificates which do not involve conferral of either a Masters or Doctoral degree. Earning a certificate usually involves taking a specific set of graduate level courses which is designed to provide the Certificate holder expertise in a specialty area of a profession or practice. Certificate programs often consist of 12 or more credits of course work. In some cases the nature of the course work is specified by skill requirements, or may be mandated by State level requirements, for example, by the Alabama State Department of Education.

Certificate requirements vary by discipline. Therefore students should determine what the requirements are of the Certificate program in which they are interested by communicating directly with the program director of the program in which the Certificate is offered. In general, financial aid is not available for certificate programs.

## Application for Degree/Certificate

Candidates for a graduate-level certificate must notify their program and the Graduate School of their intent to graduate by submitting the Application for Degree/Certificate by the appropriate deadline. The application is accessible through BlazerNET by clicking Links/Forms and selecting Apply for Graduate Degree/Certificate. Note that some programs may have an earlier submission deadline than the Graduate School so students should check their department/program website for more information.

**Students pursuing state teacher certification do not need to complete this process.**

Upon receipt of the Application for Degree/Certificate, both the graduate program and the Graduate School will audit the students' requirements to ensure the certificate can be awarded. UAB's Graduation Planning System (GPS) contains a personalized audit which includes all courses required to earn the certificate and will display completed, in-progress,

and outstanding requirements. GPS is accessible through BlazerNET by clicking the GPS button in the menu on the right side of the page.

## Financial Information

### Tuition and Fees

### Graduate Courses

The Detailed Tuition and Fee Schedule is available online <http://www.uab.edu/shp/home/admissions-tuition/tuition/tuition-fees> under Graduate Programs.

### Estimated Tuition and Fees

To ascertain Tuition and Fees Fee Schedule please visit BlazerNET located online at [www.uab.edu/blazernet](http://www.uab.edu/blazernet)

### Deadlines

Student account payment deadlines are available on the Academic Calendar for each term at <http://www.uab.edu/academiccalendar>. Students who do not make the initial payment of 100 percent of the total account balance by the first payment deadline will automatically be enrolled in the Blazer Flex Plan which will include a \$25 enrollment fee. The Blazer Flex Plan allows students to make payments in three equal installments. Payment deadline dates are available on the Academic Calendar and at <http://www.uab.edu/students/paying-for-college/when-to-pay>.

### Penalties

Students who fail to pay by the deadline are subject to substantial late fees. Students with delinquent accounts will not be allowed to register at UAB, and transcript requests will not be honored until all accounts are paid in full. The list of penalties is available online at <http://www.uab.edu/whentopay/penalties>.

### How to Pay

Payments can be made via the web with a Blazer ID and Password at [www.uab.edu/blazernet](http://www.uab.edu/blazernet). Payments can also be made in Student Accounting Services located on the ground level of the Lister Hill Library. All fees are due by the published deadline, as indicated on the UAB Academic Calendar at <http://www.uab.edu/academiccalendar>. For tuition questions please call Student Accounting Services at (205) 934-3570.

### Contact

Student Accounting Services  
1700 University Blvd.  
Lister Hill Library G10  
Birmingham, AL 35294-0013  
(205) 934-3570

## Assistantships and Fellowships

In many programs, graduate student awards are available in limited number in the form of assistantships, which require service to the department, or fellowships, which do not require service. The Graduate School also assists students in preparation of applications for extramural fellowships. The university's Financial Aid Office administers traditional loan, grant, and work-study programs, and students in certain graduate programs may participate in UAB's Cooperative Education Program, combining their studies with paid work experiences. Only degree-seeking graduate students who are registered for at least 5 hours of graduate

coursework are eligible for financial aid. For information concerning these programs, contact the Office of Student Financial Aid at (205) 934-8223, or via email at [finaid@uab.edu](mailto:finaid@uab.edu). Students can also visit the office in the Lister Hill Library G20, 1700 University Blvd or view information online at <https://www.uab.edu/students/paying-for-college/>.

## Veterans

Enrolled veterans and dependents who are eligible for federal educational benefits through the Department of Veterans Affairs should apply online at the VA website, [www.GIBILL.va.gov](http://www.GIBILL.va.gov). UAB-VA is responsible for verifying enrollment and semester hours and forwarding the information to the Regional VA office. For more information about federal educational benefits, contact UAB-VA in the Office of Veteran Recruitment and Student Services at (205) 934-8804 or via email at [veteransaffairs@uab.edu](mailto:veteransaffairs@uab.edu). Students can also visit the office in the Hill Student Center, Room 313, 1400 University Boulevard.

## Withdrawing from Courses

To avoid academic penalty, a student must withdraw from a course by the withdrawal deadline shown in the academic calendar and the UAB Class Schedule and receive a grade of *W* (withdrawn). Failure to attend class does not constitute a formal drop or withdrawal.

Withdrawal from courses can only be accomplished using official procedures. The official withdrawal must be completed online in BlazerNET. The student must submit a completed withdrawal form to the Office of the Registrar. This office will date stamp the form and return a copy. These documents should be carefully retained by the student. The date printed on the receipt is the official date of withdrawal.

In extraordinary circumstances, if it is impossible for the student to withdraw online or obtain an official withdrawal form, the student may mail a withdrawal letter to the Office of the Registrar. The official date of withdrawal will be the date the letter is received in this office. If the official date of withdrawal is after the last day to drop without paying, no tuition or fees will be refunded.

For financial aid purposes, the date of last class attendance will be the official date of withdrawal unless otherwise documented. Note that individual schools may have withdrawal rules in addition to the above.

Withdrawal from a course while a possible violation of the Academic Honor Code is under review will not preclude the assignment of a course grade that appropriately reflects the student's performance prior to withdrawal if the violation is substantiated.

## Exceptions

All students are responsible for adhering to UAB's academic policies, as published in the UAB Graduate Catalog and the current UAB Class Schedule. The Graduate Dean may make exceptions to policies. Exceptions will only be made in extraordinary circumstances. Only in cases of serious illness, which precludes a student from attending classes, or a call to active military service, can a student qualify under this policy for either administrative or academic withdrawal from courses from that semester. In such instances, students requesting an exception to policy must provide the cause specific documentation in order for the request to be considered.

Requests are evaluated only from written documentation and not through appointments or telephone calls. Information and forms are available online at <http://www.uab.edu/graduate/images/acrobat/forms/acadappeal.pdf>. Requests for exceptions must be submitted at the

earliest possible time. Consideration will not be given to any request submitted later than the term immediately following the term for which the exception is being requested. A full reduction in tuition and associated fees will be made for appropriately documented serious illnesses or military service activation, which preclude a student from continuing his/her studies at UAB. For students receiving refunds, such refunds will first be applied to any outstanding obligations and to any scholarship, grant, or loan the student has received for that term. A student who is receiving any form of Federal Title IV Financial Aid will be liable for any unearned funds received as determined by the Federal Return of Funds Policy (check with Student Accounting Office for details.)

Failure to adhere to the published drop and withdrawal deadlines (as outlined in the UAB Catalog and the UAB Class Schedule) does not qualify under this policy as an Academic Exception.

## Contact

Graduate School  
1700 University Boulevard  
G03 Lister Hill Library  
Birmingham, AL 35294-0013  
(205) 934-8227

## Financial Aid to Students

Students should apply for financial aid if they need assistance in paying for the cost of education. Students applying for financial aid are considered for all programs for which they are eligible. Assistance generally takes the form of a combination of grant, loan, and employment. The amount of the award is based on the financial need of the student, taking into consideration the student's total expenses and the family's financial circumstances. A nationally recognized method of analysis approved by the federal government is used to determine the family's ability to pay toward the cost of education.

## Applying for Financial Aid

Students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) available online at <http://fafsa.gov/> in early October. The earliest students can submit the FAFSA is October 1. Instructions and UAB forms are available online at <https://www.uab.edu/students/paying-for-college>. Since some of the aid programs have limited funding, students are encouraged to submit all required forms to the financial aid office by December 1 for financial aid for the following fall to ensure they receive aid from all programs for which they are eligible. In order to meet the tuition and fee deadlines, completed applications should be submitted no later than 30 days prior to the tuition due date. Students must reapply for financial aid each academic year.

Since procedures and rules are subject to change, students interested in applying for financial aid can receive further information online at <https://www.uab.edu/financialaid>.

## Contact

Student Financial Aid  
[finaid@uab.edu](mailto:finaid@uab.edu)  
(205)934-8223

## Mailing address

Student Financial Aid  
1720 2nd Ave South

Birmingham, AL 35294

## Financial Aid Programs

### Federal College Work-Study Program

Eligible graduate students may work part time and earn money to help pay their educational expenses while attending school. On-campus and off-campus jobs are available in areas related to the student's educational interests.

### Federal Direct Unsubsidized Stafford/Ford Loan

This is a non-need-based loan with a current fixed rate of 5.31%. Interest must be paid while the student is in school or must be capitalized as agreed upon by the borrower and lender. Repayment of the principal and any capitalized interest begins when the student's enrollment status drops below half time. The maximum annual loan amount is \$20,500.

### Federal Direct PLUS Loan for Graduate and Professional Students

This is a non-need-based loan with a current fixed rate of 6.31%. Annual loan limits are the cost of living minus other aid.

Student and Faculty Educational Opportunities

Research participation and science education programs administered by Oak Ridge Institute for Science and Education (ORISE).

## UAB Financial Information

UAB Graduate Family Assistance Scholarship  
Scholarship funds will be provided to graduate students who have family-related financial commitments that would, if not resolved, prevent them from enrolling in a degree-granting graduate program. **ONLY INCOMING STUDENTS WHO ARE ALREADY ACCEPTED INTO A RESEARCH BASED DOCTORAL PROGRAM ARE ELIGIBLE TO APPLY.**

Comprehensive Minority Faculty and Student Development Program (CMFSDP) Fellowships

Graduate Fellowships are available to qualified African American students, newly enrolled at UAB and seeking to earn a Ph.D. degree.

License to Learn Scholarship

UAB National Alumni Society License To Learn Scholarships are designed to provide additional financial aid to currently enrolled, undergraduate and graduate level UAB students.

Joseph F. Volker Alumni Scholarship

In an effort to recognize the accomplishments of currently enrolled UAB students, the UAB National Alumni Society established a scholarship award program named in honor of the late Dr. Joseph F. Volker.

Distinguished Alumni Scholarship

Distinguished Alumni Scholarship The Student Relations Committee established a new scholarship endowment in 1994 to honor the Society's Distinguished Alumni Award recipients.

Dr. Charles A. McCallum International Scholarship

This scholarship is awarded annually to recognize UAB National Alumni Society international chapters located in Thailand and Taiwan, and to honor Dr. Charles "Scotty" McCallum, UAB president emeritus, who helped to establish these two chapters.

BBVA Compass Mortgage Graduate Student Scholarship  
For graduate students.

Other Sources of Financial Aid

## Funding Links

Revised PHS 398 and PHS 2590 Forms

Community of Science

The Foundation Center

National Science Foundation

NSF Graduate Research Fellowship Program

GrantsNet

ScienceCareers

Academic Position Network

Employment Resources from the Alabama Department of Rehabilitation

Guidance on job searching and lists of available state jobs

### Academic Common Market

The Academic Common Market is an interstate agreement among selected southern states for sharing academic programs at both the baccalaureate and graduate levels. Participating states are able to make arrangements for their residents who qualify for admission to enroll in specific programs in other states on an in-state tuition basis. Participating states are Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

If you are not an Alabama resident and you wish to enroll at UAB as an Academic Common Market student, you must be accepted for admission into a UAB program to which your state has obtained access for its residents through the Academic Common Market coordinator in your home state.

Certification of eligibility must be received by the Graduate School before the first day of class in the initial semester of registration to obtain in-state tuition status for the entire program; otherwise, in-state tuition status will be awarded beginning with the semester following receipt of this certification. Please note that if a student who enrolls at UAB as an Academic Common Market student changes majors, the student will revert to paying out-of state tuition.

To obtain the name and address of a state coordinator, visit the Academic Common Market web site ([www.sreb.org/page/1304/](http://www.sreb.org/page/1304/)).

## Graduate Assistantships and Traineeships (Fellowships)

Graduate Assistants and Trainees are obligated at all times to maintain high ethical standards in academic and nonacademic activities, and to report violations of these standards to the faculty mentor and/or program director. Such students should stay well informed of departmental, school, and institutional regulations, and follow them consistently. In general, Graduate Assistants and Trainees are expected to be engaged in activities associated with their graduate programs year-round, including the periods between academic terms.

## Responsibilities of Graduate Trainees

Graduate Trainees are supported by fellowship and other institutional funds that do not have a service requirement but are instead intended to allow the student to be committed full-time to their graduate studies.

The fundamental responsibility of Graduate Trainees is to immerse themselves full-time in their graduate studies, carrying out those activities required by their program, including course work and any original research necessary to fulfill thesis, pre-dissertation, or dissertation requirements that the program stipulates.

## Responsibilities of Graduate Assistants

In general, Graduate Assistantships (including Graduate Research Assistantships and Graduate Teaching Assistantships) provide support from research grants or other institutional funds for students engaged in activities that support the research, teaching, and service missions of the university. The fundamental responsibility of Graduate Assistants is to work closely with their faculty mentors in carrying out research, teaching, or service activities, while at the same time making good progress toward the completion of the degree program. If a student's assistantship responsibilities and academic program are properly coordinated, these responsibilities will be compatible. The assistant and mentor should articulate their goals early in the term of appointment and work together to achieve them. If problems arise in the assistantship assignment, the Graduate Assistant should seek help first from the faculty mentor. If problems cannot be resolved, the student should consult their program director.

## Full-Time Enrollment

Students who are receiving a Graduate Assistantship or Traineeship are required to be enrolled full-time for the full academic year (fall, spring and summer terms). Full-time enrollment is defined as:

\* at least 9 credit hours in the fall and spring terms, and

\* registration for credit hours in the summer at a minimum level established by their academic School or College. Students should consult with their program director before registering for summer credit hours.

Students enrolled in programs that traditionally only offer course work and research opportunities during fall and spring terms are considered to be full-time even if they do not enroll during the summer term.

## Graduate Assistant and Trainee Leave

Graduate assistants and trainees are not entitled to paid leave. Any schedule time away must be coordinated between the student and the mentor. Additional information regarding assistantships and traineeships can be found here.

## Student Life

Graduate students at UAB have many opportunities to become involved in the life of the university. Information about additional groups, both on and off campus, can be found in the UAB Student Handbook, *Direction* at <http://www.uab.edu/handbook/>

UAB Student Experience would like to invite you to complete your UAB experience by becoming involved in the many activities and organizations available to you as a student. Events range from relaxing at free movies or comedy shows, involvement in student governance, cheering on the Blazers, writing for the Kaleidoscope student newspaper, rappelling down a cliff, hiking the Grand Canyon and so much more. Each semester brings new events, new organizations, opportunities to make friends, get physically fit, learn, socialize, relax, and have a good time becoming a part of the Blazer community! We want you to get involved!!

This section of the catalog contains an alphabetical list of many of the activities and organizations and activities available to students.

### Contact Us:

#### Department of Student Experience

205-934-4175  
**studentlife@uab.edu**  
 Physical Address:  
 Hill Student Center, Suite 401  
 1400 University Boulevard

#### Student Involvement & Leadership

205-934-8020  
**getinvolved@uab.edu**  
 Physical Address:  
 Hill Student Center, Suite 230  
 1400 University Boulevard

#### Student Multicultural & Diversity Programs

205-996-6778  
**diversity@uab.edu**  
 Hill Student Center, Suite 311  
 1400 University Boulevard

#### Student Organizations

205-934-8020  
**bsync@uab.edu**  
 Hill Student Center, Suite 230  
 1400 University Boulevard

## Black Graduate Student Association

The Black Graduate Student Association (BGSA) was founded in 1993 and is dedicated to the pursuit of academic excellence and social and political awareness with respect to African-Americans at UAB.

The BGSA sponsors social events, pertinent forums dedicated to issues of interest in the African-American community at our Black Lecture Series "Meeting of the Minds," activism opportunities, and an annual conference. For detailed information about the BGSA, visit the Web site at <http://www.uab.edu/bgsa/>.

## Graduate Student Government

UAB graduate students are represented by the Graduate Student Government (GSG), which works closely with the Graduate School and other offices of the university administration in formulating policies and meeting student needs. All graduate students are automatically members of the GSG, and the GSG Senate is composed of student representatives from the various graduate programs. The GSG provides partial funding for graduate student travel to professional meetings. The organization co-sponsors a variety of services and activities, including the Honors Convocation, Graduate Student Research Days, and Graduate Student Orientation. Information on the Graduate Student Medical Assistance Fund and travel grants may be obtained on the GSG Web site ([www.uab.edu/gsg](http://www.uab.edu/gsg)).

## Graduate Student Research Days

Graduate Student Research Days (GSRD) is an annual competition in which graduate students present their original research in an open forum. Information regarding participating in the GSRD competition is available at the GSRD Web site ([www.uab.edu/graduate/researchday](http://www.uab.edu/graduate/researchday)).

## UAB Graduate Career Awareness Trends

The UAB GCAT, previously called the Industry Roundtable, is sponsored by the UAB Graduate School. The GCAT is a student-initiated and student run informal discussion group open to all graduate students and dedicated to fostering a greater awareness of career opportunities outside academia. Its goals are to provide a forum for networking with industry representatives; establish an interface between academia and industry; introduce students to the process of making industry contacts; encourage students to comment, ask questions, and seek advice from non-academics; stimulate students to begin career development early in their educational experience; and provide information to students about career opportunities outside academe. More information regarding the GCAT can be found at <http://www.uab.edu/gcat/>.

## Student Outreach

The Office of Student Outreach aims to provide developmental learning, holistic engagement, and preventative education to every member of the UAB community.

The Student Outreach staff aims to:

- Work with students to help identify and overcome barriers to success
- Help students get connected to campus and community resources
- Serve as advocates to help students navigate the university system
- Provide referrals for longer-term care
- Conduct outreach and education to students and other campus community partners on relevant issues students may face
- Serve in consultation with staff, faculty, students, and families
- Interpret and uphold the University Non-Academic Code of Conduct to provide a safe and inclusive campus community environment

For more information, contact the Student Outreach, [studentoutreach@uab.edu](mailto:studentoutreach@uab.edu) (205) 975-9509, or [uab.edu/sarc](http://uab.edu/sarc)

## You're not alone; we are here to help

Student Outreach is committed to nurturing, protecting, and providing for its students. If you or someone you know is the victim of a physical or sexual assault or domestic violence, please remember; you are not alone. It is not your fault. UAB departments such as Counseling Services, Student Health and Wellness, and Student Advocacy, Rights and Conduct are here to offer assistance. Within Student Outreach, we have Case Managers to work closely and confidentially with undergraduate and graduate students. We will help you report a crime, receive medical attention, or get you connected to the right resources. If you or someone you know is struggling with depression, thoughts of suicide, or alcohol or drug abuse, we have assembled a list of medical professionals, counselors and support agencies, both on and off campus, to aid in your success at UAB. Visit the Student Outreach web site at: [www.uab.edu/students/sarc](http://www.uab.edu/students/sarc).

## Title IX

The University of Alabama at Birmingham Department of Student Experience oversees the University's compliance with Title IX of the Education Amendments of 1972. The Office works with students,

University administration, departments, faculty, staff, campus police, and other support services to ensure that University policies and programs foster a campus community free of illegal gender discrimination and from all forms of violence, including sexual misconduct, examples of which can include acts of sexual assault, domestic violence, dating violence, stalking, and gender based discrimination. Visit the Title IX Website at: [uab.edu/titleix](http://uab.edu/titleix)

## UAB CARE Team

When you are concerned about a student, know that the CARE Team is here to help. The UAB CARE Team (Communicate, Assess, Refer, Educate) helps find solutions for students experiencing academic, social, and crisis situations, including mental health concerns. Members of the University community can report a concern for a student who might benefit from services. We review these reports to understand each student issue and the on and off campus resources that may guide them to success.

The CARE Team steps in to connect students with relevant campus resources and outside agencies. Most times, we may need to communicate with the reporting party to help accurately assess the needs of the student. The CARE Team will also reach out to the student to understand his/her situation and develop a plan of action leading towards his/her success.

## Student Services & Facilities

This page contains a list of facilities and services available to UAB students. For further information on these and other facilities and activities, contact the Information Desk, located at the Hill Student Center or refer to the UAB student handbook, *Direction*, at <https://www.uab.edu/students/> and on BlazerNET on the Student Resources tab.

## Campus Recreation

The Campus Recreation Center (CRCT) offers students, faculty, staff, and alumni access to a state-of-the-art recreation facility. The UAB Campus Recreation Center offers premier programs, facilities, and services! You will find something for everyBODY – free weights, multipurpose courts, an aquatic center, group fitness studios, nutrition education, cardio-fitness areas, a climbing wall, and much more.

The 150,000 square foot facility covers three floors housing: four basketball/volleyball courts; five racquetball courts (one of which can be converted to squash and four for wallyball); four aerobics studios; one performance studio; 18,000 square feet of weight and cardio-fitness areas; a game room; Kid Zone; an aquatics center with both lap and leisure components; a multi-purpose court used for indoor soccer, floor hockey, indoor flag football and badminton; an indoor track; and a climbing wall.

Patrons can also take advantage of the wellness services here at the Campus Recreation Center, which offer personal fitness assessments, massage therapy, and personal training. In addition, we have a Campus Rec Pro Shop in house, so if you forget something we've got you covered and the PowerZone to keep you fueled before and after your workout. Lastly, we have a number of lockers available for rent in 12 month or 3 month contracts. Space is limited, so contact membership services at 205-996-5038 today if you are interested! If you prefer not to purchase a locker, we have several areas in the facility, including the locker rooms, with day use lockers available; just bring a lock, store your belongings while you workout with your own lock, and take it with you

when you leave - Free of charge! The CRCT is located at 1501 University Boulevard next to the Campus Green.

## Aquatics

The Aquatic Center housed within the Campus Recreation Center provides a place for members to swim laps as well as meet their leisure aquatic needs by swimming laps, floating through the lazy river or taking a dip in the hot tub. In addition, the aquatics program offers swim classes, private lessons, life-guarding certifications WSI (Water Safety Instructor) classes, and pool parties for special events. For questions about pool party requests and/or other pool activities, please visit our website [www.uab.edu/campusrecreation](http://www.uab.edu/campusrecreation).

## Fitness & Wellness Services

The Fitness and Wellness programs offered at the UAB Campus Recreation Center range from traditional Ufit classes and Studio V performance classes to personal training packages and wellness massage services. For more information on all of our fitness and wellness services or to schedule an appointment today, please contact [fitness@uab.edu](mailto:fitness@uab.edu).

### Ufit & Instructional Group Fitness Classes

Ufit classes are FREE to anyone with an active CRCT membership. Feel free to drop in any time or day of the week to participate in the wide variety of classes available! Instructional classes are offered throughout the year and provide anyone pre-registered with a more advanced learning experience. If you are interested in participating in any one of the instructional classes please register at our Membership desk. *All Instructional classes are open for active members and non-members.*

- We offer a wide variety of fitness classes, designed to fit your scheduling needs. From seasoned cyclers to those wanting to try yoga for the first time, Ufit has a class that will get you moving! Please visit our website to view our current schedule.
- New and challenging classes are continually being offered throughout the year! Look for classes like Cardio & Strength, Bootcamp, Women's Strength Training, Group Cycling, Aqua Fit. Other classes include: Fit Barre, Step Jump & Pump, Yoga, Pilates, Hip Hop, Zumba, Bosu, Latin Dance, Bharatanatyam Dance and TRX Training. **Register online** here!

## Wellness Catering

Wellness Catering is a program designed to cater any recreation, health, and/or wellness topic to the UAB community. All programs are presented by a recreation professional and can be modified for your groups exact needs. Topics covered vary from fitness trends, healthy eating habits, to fitness and nutrition demonstrations. Departments have the opportunity to pick a topic to be presented at a staff meeting, lunch group, or any time of your choice!

## Complete Fitness Assessments

Fitness Assessments provide individuals with their baseline measurements of flexibility, endurance, blood pressure, muscular strength, body composition, and cardiovascular fitness. The results of these tests are reviewed by a certified Personal Trainer and are used to help personalize a tailored workout plan specifically for you. To schedule your Fitness Assessment please email the Graduate Assistant of Fitness & Wellness [kplan@uab.edu](mailto:kplan@uab.edu) ([krickels@uab.edu](mailto:krickels@uab.edu)) and complete the Health History Questionnaire as well as the Fitness Assessment Form prior to the appointment.

## Personal Training

Do you want to get back into shape or simply looking to kick start a new workout? Personal Training is the service for you! Here at the UAB Campus Recreation Center we offer a variety of Personal Training packages for both members and students. Check out our Personal Training now for complete pricing, packing, and details.

## Massage Therapy Services

Celebrate a little YOU time by scheduling yourself a massage today! Appointments are available for 30 or 60 minutes and are performed by certified massage therapists. Choose from a variety of massage packages in order to customize the perfect relaxation for you. Massage therapy appointments are based upon the therapists' schedules and availability. Please allow at least 24 hours advanced notice of your preferred appointment time in order for us to best schedule your appointment.

For more information or to schedule your next appointment, please email a completed Health History Form and preferred days/times for your appointment to [fitness@uab.edu](mailto:fitness@uab.edu) today!

## Competitive Sports

The Competitive Sports program offers activities such as Intramurals and Club Sports that involve individual and team competition.

## Intramurals

All UAB students, staff, and faculty are eligible to participate in intramural sports. Faculty and Staff must adhere to the specific entrance policies if they are not campus recreation facility members. Individuals in any team league must have their campus card in possession to be eligible to participate.

Every team league is offered in men's, women's and co-rec format. Each league will have a 4 week regular season followed by a single elimination playoff. For more information please visit our website or contact [intramurals@uab.edu](mailto:intramurals@uab.edu).

Want to sign up?

## Individual Tournaments / Events

All single day tournaments are single or double elimination. Tournaments offered include: badminton, corn hole, billiards, table tennis, swim meet, track & field, triathlon, Texas Hold'em, and sand volleyball.

View tournaments here.

\*All tournaments start at 6:30 pm with registration starting at 6 pm.

\*Tournaments will be free

## Club Sports

A club sport is an organized group of individuals established to promote interest in a sport and develop skills of its members in that sport. A club sport may be organized for recreational, instructional, performance, or competitive purposes. For more information please visit our website or contact [spettigr@uab.edu](mailto:spettigr@uab.edu).

## Adventure Recreation

Adventure Recreation offers outdoor trips and clinics throughout the year including: kayaking, backpacking, camping, climbing, canoeing and whitewater rafting. Also offered are belay certification and lead climbing programs. Trips and clinics, such as the Wilderness First Responder

training, are open to university students, faculty/staff, alumni, and the community. Contact [outdoors@uab.edu](mailto:outdoors@uab.edu) for more information on trips, clinics, and rentals.

### Climbing Wall

Located on the mezzanine level of the Campus Recreation Center, the 42' tall by 36' wide climbing wall offers 1,512 square feet of climbing. The wall's climbing surface is constructed of reinforced polymer concrete panels and imprinted to match the look and feel of natural rock. Open to university students, faculty/staff, and alumni. The community may use the wall by private group rental.

### Team Building

Campus recreation offers many opportunities for team building initiatives, catering toward campus groups, corporate outings, school groups and more! Our enthusiastic and skilled facilitators will guide your group through fun activities focused on enhancing or developing vital workplace and life skills such as teamwork, cooperation, communication, and trust. Our program can accommodate groups of any size. Initiatives work on developing or enhancing: communication, teamwork, trust, cooperation, team building, planning, and other common work place functions. Contact [fagan422@uab.edu](mailto:fagan422@uab.edu).

### Rentals

The Outdoor Pursuits Rental Center offers outdoor equipment for various events and is open to university students, faculty/staff, alumni, and the community. Whether backpacking, camping, or canoeing, the rental center has multiple rental time spans on the equipment you might need like sleeping bags, tents, backpacks, and cooking sets.

## Campus Dining

Dining on-campus gives you the advantage of never having to worry about keeping cash on hand and never losing your parking space. At UAB we have eleven (11) restaurants on-campus. Just swipe your ONE Card and dine! For more information about Campus Dining, please stop by the UAB Campus Dining office located on the top floor of the Commons on the Green next to the Den, or call (205) 996-6567. You can also visit us online at [www.uab.edu/dining/](http://www.uab.edu/dining/).

For a map of dining locations and updated hours of operation visit: [www.uab.edu/students/dining/locations-hours](http://www.uab.edu/students/dining/locations-hours).

### Meal Plans

Your meal plan gives you the advantage of never having to worry about keeping cash on hand to eat on-campus. Just swipe your ONE Card and dine. For meal plan options and requirements visit [www.uab.edu/students/dining/meal-plans](http://www.uab.edu/students/dining/meal-plans).

### Dining Dollars

Dining Dollars are funds that you receive from your campus dining fee. All full-time undergraduate students (those students taking twelve (12) or more credit hours on campus) will be assessed a **\$225 Campus Dining Fee** during fall and spring semesters. This Dining Dollars fee is loaded onto a student's OneCard and is used as a declining balance account accepted at all on campus dining locations. Dining Dollars are not part of a student's meal plan.

## Libraries

**UAB Libraries** hold more than two million volumes and provide access to thousands of relevant digital resources for information, instruction, and research in support of UAB's vast academic and medical enterprise. The UAB Libraries system comprises Mervyn H. Sterne Library as well as Lister Hill Library of the Health Sciences, which includes Lister Hill Library at University Hospital and UAB Historical Collections' Reynolds-Finley Historical Library, UAB Archives, and the Alabama Museum of the Health Sciences. The faculty and staff of UAB Libraries provide the resources and essential expertise to support excellence in education, research, patient care, and community outreach. Priorities for UAB Libraries include increased access to resources, seamless cloud-based single search capability, campus-wide digital asset management, and increased support for distance and international students and researchers.

### Mervyn H. Sterne Library

The **Mervyn H. Sterne Library** houses a collection of more than one million items and numerous electronic resources that support teaching and research in the arts and humanities, business, education, engineering, natural sciences and mathematics, and social and behavioral sciences. The library is located at 917 13th Street South and online at [www.mhsl.uab.edu](http://www.mhsl.uab.edu). The website is the gateway to all library services and collections including the Undergraduate Research Toolkit, subject- and course-specific Library Guides, and a list of FAQs. Services include research assistance, citation consultations, workshops and faculty-requested classes, assistance with locating materials, and interlibrary loan.

Named in memory of the late Birmingham philanthropist and civic leader Mervyn H. Sterne shortly after it opened in 1973, the library has seminar rooms, study rooms, lockable study carrels, computers, printers, scanners, copiers, and seating for 1,350 users. The first floor of the library was renovated in 2010 to make it even more user-friendly and houses the University Writing Center and a Starbucks. Due to student requests, Sterne Library has extended hours, opening 24 hours a day for five days a week except during holidays and summer terms. For more information on resources and services, visit the Sterne Library website at [www.mhsl.uab.edu](http://www.mhsl.uab.edu), call Reference Services at (205) 934-6364 or User Services at (205) 934-4338, or request help by email, text, or chat at [here](#).

### Lister Hill Library of the Health Sciences

The **Lister Hill Library of the Health Sciences**, the largest biomedical library in the state, provides services and resources for UAB students, research and teaching faculty, and clinicians in medicine, nursing, optometry, dentistry, public health, health professions, and joint health sciences. The library was established in 1945, and then dedicated in 1971 in honor of Senator Joseph Lister Hill, a champion for health care and library legislation.

Lister Hill Library, located at 1700 University Boulevard, provides collaborative and group study space on the first floor and quiet study space on the second floor. Lister Hill Library's website at [www.uab.edu/lister](http://www.uab.edu/lister) provides 24/7 access to databases, electronic journals, ebooks, LHL Guides, FAQs, and recorded classes and tutorials. Services include consultations for conducting searches, guidance for citing resources, assistance with locating materials, and interlibrary loan services. For more information on resources and services, visit the Lister Hill Library website at [www.uab.edu/lister](http://www.uab.edu/lister), call (205) 934-2230, or request help by email, text, or chat at [www.uab.edu/lister/ask](http://www.uab.edu/lister/ask).

The **Lister Hill Library at University Hospital**, located in the West Pavilion, provides onsite support for education, research, and patient care. Access the resources and services for clinicians through the LHL@UH website at [www.uab.edu/ihlulh](http://www.uab.edu/ihlulh) or call (205) 934-2275 for more information.

The **UAB Historical Collections**, located on the third floor of Lister Hill Library, includes the **Reynolds-Finley Historical Library**, **UAB Archives**, and the **Alabama Museum of the Health Sciences**. The Reynolds-Finley Historical Library contains rare books, pamphlets, and manuscripts in the history of medicine, science, and health-related fields. This collection dates from the mid-14th century to the early 20th century and includes a core of world-renowned medical classics with important concentrations on medicine in the Civil War, the South, and early Americana. UAB Archives is the official repository for the permanent records of the University and for archival collections held by UAB. One collecting area for manuscripts is the history of the health sciences, but the repository preserves collections with a wide variety of topics. The Alabama Museum of the Health Sciences preserves over seven hundred years of medical history with instruments, specimens, equipment, and pharmacology used by health care professionals throughout the world, with a special emphasis on material used on and around the University of Alabama at Birmingham campuses. Please call (205) 934-4475 for more information on the Reynolds-Finley Historical Library or the Alabama Museum of the Health Sciences. Call (205) 934-1896 for more information on UAB Archives.

## Smolian International House

The Bertha and Joseph Smolian International House, 1600 10th Avenue South, offers services and activities for international students and scholars. Known as the I-House, it provides a focal point for programs and activities designed to foster a free exchange of information and international understanding. The facility includes meeting space for campus groups, as well as community groups having an international purpose. For additional information or a schedule of activities, call (205) 934-3328.

<http://www.uab.edu/global/international-students-and-scholars>

## The UAB Bookstore

The UAB Bookstore is located at 1400 University Boulevard inside the new Hill Student Center. The bookstore posts official lists of UAB courses and stocks the textbooks and all other items necessary for successful UAB coursework. Most textbooks can be purchased new or used. The option to rent textbooks is also available for most courses. The bookstore carries study aids, reference materials, school and office supplies; medical instruments, lab coats, and scrubs; and the largest assortment of UAB logo apparel and gifts available. Contact the UAB Bookstore at (205) 996-2665 or visit the store online at [www.shopuab.com](http://www.shopuab.com)

## University Writing Center

Located on the first floor of Mervyn Sterne Library, the University Writing Center (UWC) is UAB students' go-to place for writing assistance, whether the task at hand is a Freshman Composition paper, a lab report, or a graduate school application essay. In a friendly and professional one-on-one setting, UWC tutors teach students to use writing to discover, apply, and communicate knowledge in all disciplines. Students commonly visit to get help with understanding a writing assignment; brainstorming ideas; developing outlines and claims; understanding and applying instructor feedback; and revising and editing complete drafts. While

UWC tutors do not edit *for* students, they can help students identify their common errors and develop stronger editing processes.

In addition to one-on-one sessions in the Sterne Library location, the UWC offers online consultations for students enrolled in online courses; Ask-a-Tutor, an email service for short writing questions; and regular workshops on topics of common interest. To make an appointment, visit the UWC's website and log onto the online scheduling system with your Blazer ID and password. Like the UWC's Facebook page and follow the UWC's Twitter page to stay in touch and find out about upcoming workshops.

## One Stop

**What if you could get answers to your questions about your student account, financial aid and registration all in one place?**

Stop running from office to office and make the One Stop your first and possibly your only stop! If we can't help you on the spot, we'll do the leg-work for you or connect you to the appropriate resource.

Contact us by email, phone, or in person.

One Stop Student Services, Room 103 of the Hill Student Center, 1400 University Blvd

**onestop@uab.edu**

(205) 934-4300, 855-UAB-1STP (822-1787)

8:00 am - 5:00 pm, Monday - Thursday

9:00 am - 5:00 pm, Friday

## Information Center

Information regarding programs, services, and activities at UAB is available at the UAB Information Center. Referrals to the appropriate department, office, or person may be made for more specific information. The Information Center is located just inside the 14th Street entrance of the Hill Student Center, 1400 University Blvd. For additional information, call (205) 934-8000, or see the Web page at <https://www.uab.edu/studentaffairs/studentcenter/>

Division of Student Affairs

[www.uab.edu/cpd](http://www.uab.edu/cpd)

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UAB students are making a substantial investment of time and money by pursuing higher education, and our office takes each student's career goals seriously. Creating a career plan requires specific goals and milestones. All graduate and undergraduate students have access to the full range of services provided by UAB's department of Career & Professional Development.

Our services are intentionally designed around current workforce trends and industry best practices. Here is a broad list of services offered by Career & Professional Development:

- Individual career coaching
- Personalized, in-person resume reviews
- Interview practice for jobs, internships, medical school, and graduate school programs
- Monthly career workshops (topics vary based on workforce trends)
- Professional and Industry Speaker Panels
- Career Fairs
- Credit-based courses:

- Career Mapping (UNIV 300) – 3 credits – 50% online, 50% in-person
- Job Search Essentials (UNIV 200) – 1 credit – 100% online
- HireABlazer – UAB's career management system for students

All UAB students have access to HireABlazer through BlazerNet and can download the HireABlazer app for their phone.

Both students and parents can stay informed of career events and receive professional development information via Twitter (@uabcareerserve) or Facebook (Career & Professional Development).

## Disability Support Services

Disability Support Services (DSS), located in the Hill Student Center, serves as the central campus resource for students with disabilities. The goal of DSS is to provide a physically and educationally accessible university environment that ensures an individual is viewed on the basis of ability, not disability. DSS staff members work individually with students to determine appropriate accommodations. To be eligible for services, students need to complete an application, submit documentation of their disability and meet with our counseling staff.

For more information, contact Disability Support Services at (205) 934-4205 (voice) or 934-4248 (TTY) or <http://www.uab.edu/students/disability/> E-mail contacts are welcome at [dss@uab.edu](mailto:dss@uab.edu).

### Physical Address

Hill Student Center  
1400 University Boulevard

### Mailing Address

UAB One Stop  
1400 University Blvd., Hill 103  
Birmingham, AL 35294

**Director:** Brian E. Johnson, Ph.D.

**Coordinator:** Megan K. Talpash

**Contact:** [www.uab.edu/educationabroad](http://www.uab.edu/educationabroad) | 205-975-6611

### Mission

The mission of the UAB Office of Education Abroad (UABEA) is to administer, establish, and send UAB students on high-quality education abroad opportunities to prepare them for success in the globalized world.

### Description

Pursuant to our mission, UABEA engages in the activities described below.

**Study Abroad:** Take courses for which academic credit is received and transferred to UAB on our supported study abroad programs. This includes academic credit for student exchanges, UAB affiliate programs, and faculty-led programs that feature traditional classes, research, service learning, internships, volunteerism, shadowing, clinical rotation, and observations. Our office can help students with aspects from selecting a program to facilitating their transition back to UAB.

**Student Organizations Abroad:** Travel abroad as part of a UAB student organization; including Outreach Abroad, Outdoor Pursuits, artistic performances, athletic activities, or other student organization travel.

Our office can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

**Student Conference Travel Abroad:** Present at or attend a conference that takes place abroad as a UAB representative. Our office can help students register travel with the university, obtain the necessary education abroad insurance, and prepare for the trip.

**Passport Services:** Apply for a passport conveniently on campus. As an official U.S. Department of State Passport Acceptance Facility, we are happy to accept passport applications for students, employees, and members of the community. Our passport service is open to the public.

## Destinations

With programs in over 45 different countries, there's something for everyone. Programs are available in the United Kingdom, Italy, Spain, France, China, Germany, Costa Rica, Australia, Ireland, Japan, and many more countries. Over 40 UABEA programs cost approximately the same as UAB tuition + room + board.

## Dates

Programs are available for fall semester, spring semester, academic year, calendar year, summer, Thanksgiving Break, and Spring Break.

## Languages

Programs are available in English, as well as all of the foreign languages taught at UAB (and a few that aren't).

## Eligibility

To be eligible to apply for our programs, one must:

1. be an enrolled UAB student;
2. be 19 years of age or older (or have parental permission); and
3. be in good academic, disciplinary, and financial standing with UAB.

Some programs have additional eligibility requirements, such as GPA minima, listed on the individual program webpages.

Students may petition to the Director of Education Abroad for a possible exception to the eligibility criteria.

## Subjects of Study

Students may take core curriculum courses while abroad, as well as courses for their major and minors. Elective credits are also available.

## Course Articulation

Students need to consult with UABEA before studying abroad to initiate course articulation, the process by which UAB course equivalency is determined for each course to be taken while studying abroad. Course articulation involves the student, UABEA, the host study abroad university, and UAB department chairs and advisors all working together and commonly takes approximately one month to complete.

It is highly recommended that the students contact UABEA to begin the course articulation process at least one month before the application deadline for the selected program. Students who don't begin the articulation process early enough prior to studying abroad, may not know how, or if, their courses abroad will count toward completion of a UAB degree.

## Grade Posting

All grades earned while abroad will be posted to the student's UAB transcript and included in GPA calculations. Letter grades are used rather than pass/fail marks. In all cases, students must participate fully in all course activities and meet all stated course requirements. Auditing of any course abroad is not permitted. The process of grade posting varies depending on the program type:

UAB Exchanges are programs for which UABEA has established an exchange agreement with a university abroad. Students earn direct UAB course credit. Students on exchanges are usually mainstreamed into regular classes with the student body at their university abroad. Courses taken on student exchanges will begin with IN ("INternational" indicating that the course took place at an international UAB exchange location) and a two-letter subject code such as ME (Mechanical Engineering), GN (German), SP (Spanish), etc. to indicate the subject that was studied. Additionally, each of the courses are numbered. All courses are variable in the number of credit hours students can receive based upon their enrollment at the host university. INxx courses are repeatable. INxx courses include:

Subject	Description
INAB	Study Abroad Arabic
INAH	Study Abroad Art History
INAN	Study Abroad Anthropology
INAR	Study Abroad Art Studio
INAT	Study Abroad Astronomy
INBE	Study Abroad Biomedical Engineering
INBU	Study Abroad Business
INBY	Study Abroad Biology
INCH	Study Abroad Chinese
INCM	Study Abroad Communication Studies
INCS	Study Abroad Computer & Information Science
INCY	Study Abroad Chemistry
INDC	Study Abroad Digital Community
INEC	Study Abroad Economics
INED	Study Abroad Education
INEE	Study Abroad Electrical Engineering
INEH	Study Abroad English
INES	Study Abroad Earth Science
INEV	Study Abroad Environmental Science
INFN	Study Abroad Finance
INFR	Study Abroad French
INGN	Study Abroad German
INHY	Study Abroad History
INIS	Study Abroad International Studies
INIT	Study Abroad Italian
INJP	Study Abroad Japanese
INJS	Study Abroad Justice Sciences
INMA	Study Abroad Mathematics
INME	Study Abroad Mechanical Engineering

INMG	Study Abroad Management
INMK	Study Abroad Marketing
INMU	Study Abroad Music
INPC	Study Abroad Physics
INPE	Study Abroad Physical Education
INPH	Study Abroad Philosophy
INPS	Study Abroad Political Science
INPY	Study Abroad Psychology
INSC	Study Abroad Sociology
INSP	Study Abroad Spanish
INTH	Study Abroad Theatre
INTL	Study Abroad Special Topics

UAB Affiliate Programs are co-organized by UABEA in cooperation with an education abroad provider and/or a foreign university. Students receive a transcript from the foreign university or U.S. university of record and have transfer credit appear on their UAB transcript. UAB affiliate programs include the UAB/USAC and UAB/ISA programs listed here. Courses taken on UAB Affiliate Programs will begin with INTL ("INTernational" indicating that the course took place at an international UAB Affiliate Program) plus the host institution subject code to indicate the subject that was studied. Additionally, each of the courses is numbered. All courses are variable in the number of credit hours students can receive based upon their enrollment at the host university.

UAB Faculty-Led Programs are UAB courses that are developed and taught by UAB faculty and have a field trip that takes place far from campus, usually outside of the United States. The field trips are typically about 1 to 2 weeks in duration and the entire class, faculty leader and students, travel together. Students earn direct UAB course credit. For UAB Faculty-Led Programs, the instructor will assign the final grade as is normally done for any UAB class taught on campus. (See the Grading Policies and Practices section of the UAB Catalog of Undergraduate Programs). UAB Faculty-Led Programs are designated with SA following the course title.

UAB Internship/Practicum Courses Abroad are UAB courses through which students do an internship or practicum, actually working abroad in a company or organization related to the student's area of study, and earn direct UAB course credit. For UAB Internship/Practicum Courses Abroad the instructor will assign the final grade as is normally done for any UAB internship/practicum course taken domestically.

## Residency

Courses taken on UAB Exchanges, UAB/USAC programs, UAB/ISA programs, U.S. - UK Fulbright Commission Summer Institutes, U.S. Department of State Critical Language Scholarship Program, Clinton Scholarship at the American University in Dubai, UAB Faculty-Led Programs, and UAB Internship/Practicum Courses Abroad will satisfy the UAB residency requirement. Students need to contact UABEA to ensure their Graduation Planning System records are noted accordingly.

## Changes of Grades

Requests for grade changes to UABEA must be accompanied by official documentation sent directly from the host university.

## International Student and Scholar Services

International Student and Scholars Services (ISSS) is committed to providing quality services and programs to retain and support the UAB international community.

ISSS advises foreign students and visiting international faculty and staff in matters of immigration and federal and state taxation, and provides orientation and support programs to facilitate the transition to the UAB and Birmingham community. ISSS also serves as a collaborative resource to facilitate, promote, and strengthen international understanding on campus and throughout the Birmingham community.

International Student and Services also operates the Smolian International House. For additional information, call (205) 934-3328 or visit our Web page at <http://www.uab.edu/global/international-students-and-scholars>

## ONE Card

The UAB ONE Card serves as the official student ID and offers access to a variety of services and resources on and around campus. Students use their ONE Card to enter residence halls and the Campus Recreation Center, attend UAB athletic and cultural events and check out materials from UAB libraries. With their ONE Card, students can enjoy discounts on tickets to a wide variety of on and off-campus events through the UAB Ticket Office. The ONE Card also functions as a debit card, allowing students a convenient and secure way to pay for goods and services at a variety of on campus and local area merchant locations.

General information about the UAB ONE Card, including a list of carding locations, is available at [www.uab.edu/onecard](http://www.uab.edu/onecard). Note: A photo ID is required to have your initial ONE Card made. Questions about ONE Card services can be directed to [onestop@uab.edu](mailto:onestop@uab.edu) or (205) 934-4300.

## Parking

All students who desire to park in UAB student parking facilities must purchase a permit from Parking and Transportation Services. Permits can be purchased by the term or for the full academic year. Fees vary according to lot. Contact Parking and Transportation Services at (205) 934-3513, for details, or visit online at [www.uab.edu/parking/](http://www.uab.edu/parking/).

Both the university and the City of Birmingham issue citations in student lots to vehicles illegally parked or not displaying a proper permit. Students are responsible for paying all fines and fees imposed. Any delinquent ticket payments may be added to the student's account in the Student Accounting Office. If a student accumulates three or more delinquent tickets and/or accumulates more than \$45.00 in citations, the student's vehicle may be immobilized or impounded at his or her expense.

Handicapped spaces are conveniently located throughout campus. A valid handicap permit must be displayed to park in a handicapped space in addition to the applicable parking permit. All state issued handicap parking permits MUST be registered with the UAB Parking Office in order to avoid a citation and park in a restricted UAB lot or deck.

For additional information and a campus parking map, contact:

### UAB Parking and Transportation Services

608 Eighth Street South • Telephone (205) 934-3513 • E-mail: [uabparking@uab.edu](mailto:uabparking@uab.edu) • Website: [www.uab.edu/parking/](http://www.uab.edu/parking/)

## Blazer Express

The UAB Blazer Express Transit System is a service that provides transportation throughout the University campus. With a valid UAB ID badge, students, employees, and authorized visitors can enjoy fare-free bus transportation along 6 designated routes. Buses are ADA-accessible and can seat up to 35 riders. Bus service is provided Monday – Friday from 5:30A – 12:00A. Safety escort service is available through Blazer Express seven days a week from 9:00PM – 5:30 AM by calling (205) 934-8772.

## Motorist Assistance Roadside Service (MARS)

Motorist Assistance Roadside Service (MARS) is a free service available to all visitors, students, and employees parking on campus who need help with a dead battery, flat tire, keys locked in a car, or empty gas tank. The service is available weekdays 7:30 AM - 10:00 PM, except University holidays. For assistance, call (205) 975-6277.

## Student Health & Wellness Center

The Student Health & Wellness Center (SHWC) provides a comprehensive and integrated program of services to meet the medical, counseling and wellness needs of UAB's undergraduate, graduate and professional students. Creating a healthy campus and promoting student wellness are essential to supporting student learning and success. The SHWC is staffed by a group of committed medical providers, counselors, nurses, clinicians, wellness promotion professionals, and support staff who embrace the opportunity to meet your wellness, medical and counseling needs. Those services and resources are available in the state-of-the-art Student Health & Wellness Center located at 1714 9<sup>th</sup> Ave. South (LRC building), Birmingham, AL 35294-1270. Blazer Express has convenient drop-off and pick-up locations near the Student Health & Wellness Center. Patient and client parking is available at the South entrance to the building.

### Health Services

Student Health Services offer comprehensive primary care services including acute and chronic care, women's health, a Registered Dietitian, mental health evaluation and treatment, immunizations, allergy immunotherapy, and treatment of minor emergencies. A Sports Medicine and Sexual Health Clinic are also available, as well as a Certified Athletic Trainer located in the UAB Recreational Center. On-site lab and x-ray services are available. After-hour's consultation is provided through provider on call coverage, 24 hours a day/7 days a week/365 days a year. To ensure convenience and access, the Health Services operates under an open-access appointment scheduling system. Go to [www.uab.edu/students/health](http://www.uab.edu/students/health) for more information or to schedule an appointment through our patient portal. You may also call (205) 934-3580 to schedule an appointment or for general information. All currently enrolled UAB undergraduate and graduate students have access to medical office visits, evaluation and development of a treatment plan at no additional out of pocket cost beyond the payment of regular UAB tuition. Diagnostic testing (lab and x-ray) is available on a fee-for-service basis and can be billed to the student's insurance. A more complete listing of no-cost services and those services available, but at additional cost, can be accessed at <http://www.uab.edu/students/health/health-services>.

### Counseling Services

Counseling Services assists in developing students' potential in physical, academic, spiritual, psychosocial, emotional, and vocational areas. Common presenting concerns include depression, anxiety, grief, relationship concerns, stress management, eating disorders, alcohol or substance abuse concerns, identity, conflict, gender transition and trauma. In addition to individual and couples counseling, services include wellness programs, group opportunities, and educational resources. Confidential counseling services are available to all currently enrolled UAB students at no cost. For more information or to schedule an appointment call (205) 934-5816 or visit <http://www.uab.edu/students/counseling/>.

### Wellness Promotion

Wellness Promotion aims to provide students with programs, education, and resources toward personal wellness. Currently focusing on Interpersonal Violence Prevention and a Collegiate Recovery Community, Wellness Promotion is committed to equipping students with the information and resources needed to achieve healthy and balanced lives. Our Interpersonal Violence Prevention services include large scale events such as Take Back the Night, workshops, trainings, and internship and volunteer opportunities. Our Collegiate Recovery Community welcomes students and participants committed to long-term recovery, health, and wellness. Collegiate Recovery Community services include health and wellness events, sober social options, community involvement, and academic support. Wellness Promotion has also launched a peer education program, the Promoters of Wellness, which is a group of students who are nationally Certified Peer Educators that provide peer education through outreach and coaching services. A complete list of programs, services, and information to schedule a peer coaching session can be found at [www.uab.edu/students/wellness](http://www.uab.edu/students/wellness) or [www.uab.edu/pow](http://www.uab.edu/pow).

### Student Insurance Coverage (Mandatory and Optional)

All full time students enrolled in a degree seeking program have a mandatory requirement to have major medical health insurance to ensure coverage for hospital, emergency room, specialty physician care and diagnostic testing. For more information on the mandatory insurance coverage requirement go to the SHWC website at <https://www.uab.edu/students/health/insurance-waivers/mandatory-insurance-waivers>

Information regarding the Student Health Insurance Plan for full-time registered undergraduate students taking a minimum of **9 credit** hours and full-time graduate students taking a minimum of **6 credit** hours can be found at <https://www.uab.edu/students/health/insurance-waivers/mandatory-insurance-waivers>. All students enrolled in a **clinical program** that has a mandatory health insurance requirement will continue to have the same requirement regardless of the number of credit hour of enrollment.

To learn more about services available through the Student Health and Wellness Center, please visit any of the following website.

Student Health Services <http://www.uab.edu/students/health/>

Student Counseling Services <http://www.uab.edu/students/counseling/>

Wellness Promotion <http://www.uab.edu/students/wellness/>

You can also contact us at one of the following phone numbers for assistance.

### Appointments:

### Appointments:

Call **Health Services** at (205) 934-3580 or schedule/cancel an appointment through the patient portal.

Call **Counseling Services** at (205) 934-5816 for questions or to schedule an appointment. Appointments can be canceled through the patient portal. Appointments cannot be schedule through the patient portal.

Call **Wellness Promotion** at (205) 996-0834 for appointments. *Office hours vary for this department.*

### Office Hours

Day	Hours
Monday - Friday	8:00 a.m.- 5:00 p.m.

### UAB Testing Office

The UAB Testing Office provides testing services for UAB students, prospective students, and the community at large. The following tests and/or services are available:

- Admissions examinations for undergraduate and graduate programs
- American College Testing Program (ACT)
- Scholastic Aptitude Test (SAT)
- Miller Analogies Test (MAT) (acceptable to some graduate programs)
- College Level Examination Program (CLEP)—General and Subject Examinations
- Correspondence examination monitoring
- Professional licensing/certification/registration examinations

For further information on any of the above, contact the UAB Testing Office, 936 Building, 936 19th Street South, Telephone (205) 934-3704.

### UAB Ticket Office

The UAB Ticket Office is an excellent source for acquiring the best seats to campus events, including performances at the Alys Stephens Center, and UAB Blazers Football and Basketball games. It also serves as the point-of-purchase for events sponsored by the Department of Student Life and other UAB organizations and off-campus agencies. In addition, the UAB Ticket Office offers discounted tickets for Carmike and Regal Cinemas, and to most major theme parks across the southeast, including Six Flags over Georgia, Alabama Splash Adventure and Dollywood. Discounts to the major aquariums in the area are also available including: Georgia Aquarium and Ripley's Aquarium of the Smokies. First-class postage stamps are also available for purchase (UAB internal requisitions are accepted). For additional information, contact the UAB Ticket Office, located inside One Stop Student Services in Room 103 of the Hill Student Center, 1400 University Blvd., Birmingham, AL 35294-1150 Telephone: (205) 934-8000.

Visit our website <https://www.uab.edu/students/one-stop/ticket-office>

### Veterans Services

UAB Veterans Services (UAB-VS) assists veterans, reservists, guardsmen, and dependents of disabled or deceased veterans to access their educational benefits. UAB-VS serves as a liaison between the student and the local and federal agencies, including the State Department of Education, Department of Defense, and the Department of Veterans Affairs. The office staff assist students in applying for

educational benefits, securing tutorial assistance and obtaining veterans work-study positions. For further information, contact UAB Veterans Services, Hill Student Center, Room 313, 1400 University Blvd., Telephone (205) 996-0404 or read about our programs and services at [www.uab.edu/students/veterans](http://www.uab.edu/students/veterans)

## VA Complaint Policy

Any VA Complaint against the school should be routed through the VA GI Bill Feedback System by going to the following link: <http://www.benefits.va.gov/GIBILL/Feedback.asp>. The VA will then follow up through the appropriate channels to investigate the complaint and resolve it satisfactorily.

## Choice Act

The University of Alabama at Birmingham in the State of Alabama complies with section 702 - Tuition under Veteran's Access Choice and Accountability Act of 2015, providing for resident (in-state) tuition and fees for the following:

- A Veteran using educational assistance under either chapter 30 (Montgomery G.I. Bill – Active Duty Program) or chapter 33 (Post 9/11 G.I. Bill), of title 38, United States Code, who lives in the State of Alabama while attending a school located in the State of Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of discharge from a period of active duty service;
- Anyone using transferred Post – 9/11 G.I. Bill benefits (38 U.S.C. § 3319) who lives in the State of Alabama while attending a school located in the State of Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of the transferor's discharge from a period of active duty service;
- A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship (38 U.S.C. § 3311 (b) (9)) who lives in the State of Alabama while attending a school located in the State of Alabama (regardless of his/her formal State of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service.
- Anyone described above while he or she remains continuously enrolled (other than during regularly scheduled breaks between courses, semesters, or terms) at the same school. The person so described must have enrolled in the school prior to the expiration of the three-year period following discharge or death described above and must be using educational benefits under either chapter 30 or chapter 33, of title 38, United States code.

## Collat School of Business

**Dean:** Dr. Eric P. Jack

The Collat School of Business offers the following graduate programs:

### Degree Programs

- Master of Accounting (M.Ac.)
- Master of Business Administration (M.B.A.)
- Master of Science in Management Information Systems (M.S.MIS) - Online only

### Certificate Programs

- Graduate Certificate in Social Media
- Graduate Certificate in Technology Commercialization and Entrepreneurship

Located in the heart of Alabama's business center, the UAB Collat School of Business offers an engaging learning environment with classrooms extending well beyond the walls of the UAB campus. Our unique location allows our faculty to integrate the practical experiences of the State's leading companies - from Fortune 500 corporations to entrepreneurial start-ups - into the programs we offer. Our students gain valuable, real-world experience through a wide variety of internships and other opportunities in the business community.

The UAB Collat School of Business is accredited at the baccalaureate and master's level by AACSB International and holds separate AACSB International accreditation of the undergraduate and master's programs in accounting. AACSB International is the largest and longest standing specialized accrediting agency for business and accounting programs in the world and represents the highest standard of achievement. UAB is among only 184 universities worldwide to achieve this seal of excellence in both business and accounting.

\*For additional information about our programs or updates approved prior to the publication of a new Graduate Catalog, please see the Collat School of Business website.

## Certificate in Technology Commercialization and Entrepreneurship

Requirements	Hours
MBA 673 Planning and Pitching a New Business Concept	3
MBA 681 From Idea to IPO	3
MBA 683 Leading Innovation	3
MBA 691 MBA Independent Study	3
<b>Total Hours</b>	<b>12</b>

## Certificate in Social Media

Requirements	Hours
MBA 614 Social Media and Virtual Communities in Business	3
MBA 616 Web Analytics	3
MBA 617 Data Science for Business	3
MBA 690 Directed Study	3
<b>Total Hours</b>	<b>12</b>

## Accounting and Finance

### Degree Offered: Master of Accounting

Degree Offered:	Master of Accounting
Director:	Dr. James Byrd
Phone:	(205) 934-8829
E-mail:	<a href="mailto:jimbyrd@uab.edu">jimbyrd@uab.edu</a>
Website:	<a href="http://www.uab.edu/mac">www.uab.edu/mac</a>

The Department of Accounting and Finance (ACFN) in the Collat School of Business is proud to offer a Master of Accounting (M.Ac.) program that holds a separate accreditation by the Association of Advance Collegiate

Schools of Business (AACSB), the highest honor a business school can achieve for its accounting programs.

Courses in the program are offered in the classroom primarily in an evening format, with some classes having an online option. A completely online program is also offered. More information on the online program can be found at [businessdegrees.uab.edu](https://businessdegrees.uab.edu).

High-achieving UAB accounting undergraduate students interested in pursuing the M.Ac. degree should consider the UAB Fast-Track Master of Accounting Program. Details are outlined below.

## Admission

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page:

<https://www.uab.edu/business/home/master-of-accounting/mac-admission>

The course requirements are listed under the M.Ac. tab, above.

## Admission Requirements

1. A bachelor's degree from an institution that is AACSB or regionally accredited, received within the five-year period immediately preceding the desired term of enrollment (or a bachelor's degree in any discipline from a regionally accredited institution). Applicants who do not have an undergraduate accounting degree will be required to complete up to nine foundation courses in addition to the classes listed in the Program Description section and will be required to earn at least a B in the foundation courses numbered 300 and above. The foundation courses that must be completed are as follows:

- AC 200 Principles of Accounting I
- AC 201 Principles of Accounting II
- AC 300 Financial Accounting I
- AC 304 Accounting Information Systems
- AC 310 Financial Accounting II
- AC 401 Cost Accounting
- AC 402 Income Taxation I
- AC 423 External Auditing
- AC 430 Financial Accounting III

### International Applicants' prerequisite requirements:

Please note that only courses covering US Generally Accepted Accounting Principles (GAAP), Generally Accepted Auditing Standards (GAAS), and U.S. Taxation will be accepted as meeting prerequisite requirements. Applicants without these courses will be required to complete the prerequisite courses at UAB (listed above).

2. A minimum score of 500 on the Graduate Management Admission Test (GMAT) administered by the Graduate Management Admission Council (GMAC, [www.gmac.com](http://www.gmac.com)) within the five-year period immediately preceding the desired term of enrollment. **The GMAT is waived for UAB accounting graduates and other students who take all of the foundation accounting courses at the undergraduate level at UAB.**

**The GMAT requirement may also be waived by the M.Ac. Director if one of the following conditions apply:**

- Applicant earned or will have earned an undergraduate accounting degree from an AACSB accredited institution.

- Applicant is completing the accounting bridge program at UAB.
- Applicant has an advanced degree in a business related field (e.g. MBA) from an AACSB accredited institution.
- Applicant has a terminal degree in another discipline.
- Applicant has a professional accounting certification (CPA or equivalent) which requires continuing professional education.
- Applicant has significant (3-5 years) experience at the executive level.

3. Satisfactory academic performance as measured by the undergraduate accounting grade point average. [Note: UAB undergraduates planning to pursue the M.Ac. degree should take **AC 423** as their accounting elective. If they do not take **AC 423**, they should plan to take **AC 523** as an elective in the M.Ac. program before taking **AC 606**.]

## Application Deadlines\*

\*Deadlines for On-campus Master of Accounting Program:

Fall semester: August 1st  
Spring semester: December 1st  
Summer semester: May 1st

\*Deadlines for the Online Master of Accounting Program:

Fall semester: August 1st  
Spring semester: December 1st  
Summer semester: May 1st

## Required Documents

- **Application form** including 2 evaluation forms/letters of reference
- Current resume/CV detailing work experience
- Official transcripts from all colleges and universities attended (including dual enrollment and Community Colleges) sent directly by the Registrar or responsible head of the institution to the UAB Graduate School, LHL G03, 1720 2nd Ave. S., Birmingham, AL 35294-0013. Transcripts may also be sent electronically to [gradschool@uab.edu](mailto:gradschool@uab.edu).
- GMAT score\* sent directly from the testing agency. Institution code: 1CB5S61
- 500 word Statement of Purpose

### International Applicants

The following additional documents are required of international applicants:

A minimum composite score of 80 with a minimum score of 20 in each section of the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service (ETS, [www.toefl.org](http://www.toefl.org)) within the five-year period immediately preceding the desired term of enrollment. We will also accept an IELTS score of 6.5 in lieu of the TOEFL.

Financial Affidavit of Support

Immigration documentation if currently residing in the United States, or proof of citizenship if currently a U.S. citizen.

A transcript evaluation report prepared by Educational Credential Evaluators, Inc. (ECE, [www.ece.org](http://www.ece.org)) or World Education Services (WES, [www.wes.org](http://www.wes.org))

## Fast-Track Master of Accounting Program

The Fast-track Master of Accounting (M.Ac.) Program is open to high-achieving undergraduate students pursuing a BS degree in accounting at UAB. Students admitted to the Fast-Track M.Ac. Program can take up to 12 hours of graduate courses at undergraduate tuition rates while they are completing their Bachelor's degree in accounting and have these graduate courses count toward the M.Ac. degree as long as A's or B's are earned in the courses. After earning the BS degree, students in the Fast-Track Program continue pursuing the M.Ac. degree as described above. Students in the Fast-Track M.Ac. program are not required to take the GMAT.

### Fast-Track M.Ac. Program Admission Requirements

To be admitted to the Fast-Track Master of Accounting Program, students must:

- Have completed at least 15 hours of coursework at UAB.
- Be within 45 hours of graduation.
- Have a cumulative GPA of 3.4 or higher.
- Have completed the following courses with at least a "B" in each course and have at least a 3.3 average in the three courses:

AC 300 Financial Accounting I

AC 304 Accounting Information Systems

AC 310 Financial Accounting II

**Students who think they are eligible for the Fast-Track M.Ac. Program should contact the M.Ac. Program Director at the Collat School of Business.**

## Master of Accounting

Requirements	Hours
<b>Required Courses (7)</b>	
LS 557 Business Law for Accountants	3
AC 514 Governmental and Not-for-Profit Accounting	3
AC 580 Advanced Financial Accounting	3
AC 600 Financial Accounting Research	3
AC 606 Advanced Auditing and Attestation	3
AC 612 Corporate Governance	3
AC 620 Tax Entities	3
<b>Elective Courses -Choose Three From:</b>	9
AC 513 Internal Auditing <sup>1</sup>	
AC 523 External Auditing <sup>1</sup>	
AC 530 Financial Accounting III <sup>1</sup>	
AC 540 International Accounting: From a User's Perspective <sup>1</sup>	
AC 541 International Accounting: Study Abroad <sup>1</sup>	
AC 564 Accounting Internship <sup>1</sup>	
AC 572 Information Technology Auditing <sup>1</sup>	
AC 573 Fraud Examination <sup>1</sup>	
AC 574 Forensic Accounting Practicum <sup>1</sup>	
IS 607 Introduction to Cyber Security	

IS 613	Information Security Management
IS 620	Cyber Attacks and Threat Mitigation
IS 621	Incident Response and Business Continuity
IS 644	Digital Forensics
LS 571	Legal Elements of Fraud Investigation
MBA 613	Information Security Management
MBA 614	Social Media and Virtual Communities in Business
MBA 617	Data Science for Business

**Total Hours** **30**

- <sup>1</sup> May be taken as graduate courses only if not previously taken as undergraduate level courses.

## Uniform CPA Examination

Eligibility requirements for sitting for the Uniform CPA examination vary among the states. The state of Alabama, through its Accountancy Laws and the Alabama State Board of Public Accountancy (ASBPA, [www.asbpa.alabama.gov/](http://www.asbpa.alabama.gov/)), requires that applicants for the Uniform CPA Examination hold a baccalaureate degree from an accredited institution and possess a total of 120 semester hours of postsecondary education, including at least 24 semester hours of accounting in specified areas at the upper-division or graduate level. However, 150 hours will still be required for certification effective January 1, 2016. UAB students can meet these requirements in several ways:

1. By obtaining an undergraduate accounting degree (or its equivalent) and completing certain additional course work as specified under the Board's Accountancy Rules. Students interested in this option and those interested in this option who already hold degrees from other institutions should contact the accounting advisor in the Collat School of Business, for specific guidance.
2. By obtaining a Master of Accounting degree. Those who hold a Master of Accounting degree from an accounting program accredited by AACSB International (as is UAB's) meet the academic requirements for taking the Uniform CPA Examination.
3. By obtaining a Master of Business Administration degree. Those who already hold an undergraduate accounting degree (or its equivalent) and who desire a graduate degree in business may establish their academic eligibility under the Board's Accountancy Rules by completing as part of their M.B.A. requirements certain graduate accounting course work as determined by the Master of Accounting Program Director. Students interested in this option should first contact the Program Coordinator in the Graduate School of Management.

## Other Professional Accounting Certifications

Other examinations leading to professional certification (CMA, CIA, CFE, CISA, etc.) generally do not require academic course work beyond the baccalaureate degree. Students interested in other accounting certifications should contact any member of the accounting faculty for further information.

## Business Administration

Degree Offered:	Master of Business Administration (M.B.A.)
Director:	Kenneth L. Miller, MBA, EdD

Phone: (205) 934-8855  
 E-mail: [kimiller@uab.edu](mailto:kimiller@uab.edu)  
 Website: <http://www.uab.edu/mba>

## Master of Business Administration

The UAB MBA is designed to provide competency in management and to acquaint the student with all aspects of business activity. In order to deal effectively with increasingly complex and ambiguous problems of business and organizations, managers require training in sophisticated analytical techniques, appreciation for the behavioral facets of management, as well as an ability to anticipate and adapt to changes in an industrial environment. The program stresses critical thinking and is decision oriented, focusing on key aspects of business administration.

The MBA program is suitable not only for students with baccalaureate degrees in business but also for those who have degrees in engineering, the sciences, or liberal arts.

UAB's MBA program offers an online MBA, and an on-campus program where students may take a mixture of face-to-face and online classes. Students may choose to follow either a one or two-year-plan of study to guarantee graduation with a specified time-frame, or pursue the degree at their own pace. Students have 5 years from term of entry to complete degree requirements.

Concentrations are available in finance, management information systems, marketing, and health services. Dual Degree options available include MD/MBA, DMD/MBA, OD/MBA, MPH/MBA, MSHA/MBA, and ASEM/MBA and require applicants to apply and be accepted to both degree programs.

### Quantitative Requirement

Applicants are expected to have completed a pre-calculus class with a grade of "C" or better within the last five years. If an applicant does not meet this requirement, they may be admitted with the contingency of satisfying the requirement before their first term of enrollment.

More information about this can be found on the Collat School of Business website.

### Grade Point Average Policy

Any student who receives three "C"s or one "F" in any graduate level course while in the MBA Program will be dismissed from the program.

## Admission

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page:

<https://www.uab.edu/business/home/mba/mba-admission>

### Application Deadlines

Fall semester - August 1st  
 Spring semester - December 1st  
 Summer semester- May 1st

*\*It is suggested that international applicants should apply at least 6 months in advance of the deadline in order to ensure processing of all Visa paperwork*

## Required Documents

- **Application form** including 2 evaluation forms/letters of reference
- Current resume detailing work experience
- Official transcripts from all colleges and universities attended sent directly by the Registrar or responsible head of the institution to the UAB Graduate School, 1720 2nd Ave. S., LHL G03, Birmingham, AL 35294-0013.
- GMAT score\* sent directly from the testing agency. (it is recommended that you repeat the GMAT if score is below 480)

*\*GMAT requirement is waived for applicants holding terminal degrees. Applicants holding master degrees from regionally accredited institutions may be considered for a waiver as long as a comparable standardized test was required for entry into their program. In addition, the GMAT **may** be waived for applicants with 3-5 years of demonstrated professional work experience and exceptional undergraduate academic performance. Professional experience is determined on a case-by-case basis using a resume, and any requested supporting documents, including undergraduate transcript. Our admissions committee evaluates an individual's accomplishments, roles, and responsibilities to determine the total number of years of profession experience. UAB considers the applicant's managerial responsibilities, role in setting direction and strategy, and his/her role in allocating resources. Normally, professional experience begins at the point of graduation; however, we may consider prior work experience based on type of experience. Students who wish to petition for a GMAT waiver based on professional work experience may submit a resume and unofficial transcript to **MBA Admissions** prior to applying.*

## Additional Documents Required for International Applicants

- TOEFL IBT score of 80 or IELTS of 6.5 (international applicants only)
- General academic credentials evaluation (**ECE** or **WES** report) for international applicants required if transcripts are not in English

## Non-Degree Seeking Admission

Candidates interested in non-degree seeking admission must have an undergraduate cumulative GPA of 3.0 or higher. Non-degree seeking students are limited to earning 12 hours credit in this status. The option to enter as non-degree seeking will be offered to candidates who miss the application deadline for applying to the MBA program, but who submit all materials prior to the beginning of the term and meet admission requirements, provided that there are seats available. We will require a resume, copies of transcripts, and GMAT scores along with the application. Permission of the MBA office is needed in order to register for classes as a non-degree seeking student.

Contact the UAB Collat School of Business, Graduate School of Management with any questions concerning UAB's MBA program.

# Master of Business Administration Degree Options

## Master of Business Administration

Requirements	Hours
<b>All Concentrations</b>	
MBA 601 Accounting and Finance for Managers	3
MBA 608 Strategic Cost Analysis and Decision Making	3
MBA 619 Information Technology and Business Strategy	3
MBA 621 Topics in Corporate Finance	3
MBA 631 Management and Organizations	3
MBA 634 Strategic Management	3
MBA 637 Operations and Supply Chain Management	3
MBA 642 Economics for Managers	3
MBA 651 Marketing Strategy	3
MBA 662 Quantitative Analysis for Business Managers	3
Two Electives chosen from the following:	6
<b>MBA Courses</b>	
MBA 612 Corporate Governance	
MBA 613 Information Security Management	
MBA 614 Social Media and Virtual Communities in Business	
MBA 617 Data Science for Business	
MBA 618 Technology Based Project Management	
MBA 622 Portfolio Theory and Construction	
MBA 623 Mergers and Acquisitions	
MBA 624 Global Financial Management	
MBA 625 Real Estate Decision Analysis	
MBA 626 Credit Markets and Instruments	
MBA 627 Financial Risk Analysis and Management	
MBA 628 Valuation Seminar	
MBA 629 Treasury Management	
MBA 635 International Business Policy	
MBA 636 Human Resource Administration	
MBA 638 Managerial Communication Skills	
MBA 641 Macroeconomics Analysis and Decision Making	
MBA 645 Game Theory in Industrial Organization	
MBA 652 Sales Management	
MBA 653 Marketing Analysis and Decision Making	
MBA 654 International Marketing	
MBA 658 Applied Marketing Research	
MBA 671 Health Care Marketing	
MBA 673 Planning and Pitching a New Business Concept	
MBA 676 MBA Internship	
MBA 681 From Idea to IPO	
MBA 683 Leading Innovation	
MBA 690 Directed Study	
MBA 691 MBA Independent Study	
<b>Total Hours</b>	<b>36</b>

## Marketing Concentration

Requirements	Hours
<b>Choose Three From:</b>	<b>9</b>
MBA 652 Sales Management	
MBA 653 Marketing Analysis and Decision Making	
MBA 654 International Marketing	

MBA 658 Applied Marketing Research	
MBA 671 Health Care Marketing	
Or other Marketing course approved by advisor	

**Total Hours** 9

## Health Services Concentration

Requirements	Hours
MBA 671 Health Care Marketing	3
Two HCO electives at the 600 level or other health-related courses approved by advisor	6

**Total Hours** 9

## Finance Concentration

Requirements	Hours
<b>Choose Three From:</b>	<b>9</b>
MBA 622 Portfolio Theory and Construction	
MBA 624 Global Financial Management	
MBA 625 Real Estate Decision Analysis	
MBA 626 Credit Markets and Instruments	
MBA 627 Financial Risk Analysis and Management	
MBA 629 Treasury Management	
Or other Finance course approved by advisor	

**Total Hours** 9

## Management Information Systems Concentration

Requirements	Hours
<b>Choose Three From:</b>	<b>9</b>
MBA 613 Information Security Management	
MBA 614 Social Media and Virtual Communities in Business	
MBA 616 Web Analytics	
MBA 617 Data Science for Business	
MBA 618 Technology Based Project Management	

**Total Hours** 9

## Dual Degree Option for M.B.A./D.M.D., M.B.A./M.P.H., M.B.A./O.D.

Requirements	Hours
MBA 601 Accounting and Finance for Managers	3
MBA 631 Management and Organizations	3
MBA 642 Economics for Managers	3
MBA 662 Quantitative Analysis for Business Managers	3
MBA 608 Strategic Cost Analysis and Decision Making	3
MBA 619 Information Technology and Business Strategy	3
MBA 621 Topics in Corporate Finance	3
MBA 637 Operations and Supply Chain Management	3
MBA 651 Marketing Strategy	3
MBA 634 Strategic Management	3

**Total Hours** 30

## Dual Degree Option for M.B.A./M.S.H.A.

Requirements	Hours
MBA 601 Accounting and Finance for Managers	3
MBA 631 Management and Organizations	3
MBA 642 Economics for Managers	3

MBA 662	Quantitative Analysis for Business Managers	3
MBA 608	Strategic Cost Analysis and Decision Making	3
MBA 619	Information Technology and Business Strategy	3
MBA 629	Treasury Management	3
MBA 637	Operations and Supply Chain Management	3
MBA 651	Marketing Strategy	3
MBA 634	Strategic Management	3

**Total Hours** **30**

## Dual Degree Option for M.B.A./M.D.

Requirements	Hours	
MBA 601	Accounting and Finance for Managers	3
MBA 631	Management and Organizations	3
MBA 642	Economics for Managers	3
MBA 690	Directed Study (Healthcare Innovation)	3
MBA 608	Strategic Cost Analysis and Decision Making	3
MBA 619	Information Technology and Business Strategy	3
MBA 621	Topics in Corporate Finance	3
MBA 637	Operations and Supply Chain Management	3
MBA 651	Marketing Strategy	3
MBA 634	Strategic Management	3

**Total Hours** **30**

## MBA Degree Requirements

**Total Hours for Degree: 36 (12 courses)**

Requirements	Hours	
<b>Tools and Perspectives on Business (12 Hours)</b>		
MBA 601	Accounting and Finance for Managers	3
MBA 631	Management and Organizations	3
MBA 642	Economics for Managers	3
MBA 662	Quantitative Analysis for Business Managers	3
<b>Functional Core (15 Hours)</b>		
MBA 608	Strategic Cost Analysis and Decision Making	3
MBA 619	Information Technology and Business Strategy	3
MBA 621	Topics in Corporate Finance	3
MBA 637	Operations and Supply Chain Management	3
MBA 651	Marketing Strategy	3
<b>Capstone (3 Hours)</b>		
MBA 634	Strategic Management	3
<b>Electives (6 Hours)</b>		
<b>Total Hours</b>		

**36**

**Degree with Concentration requires additional approved elective in selected area of study: 39 Total Hours (13 Courses). Concentrations are offered in Finance, Health Services, Information Systems, and Marketing.**

**MBA Plans of Study (Full Time 1-Year-Plan and Part time 2-Year-Plan)**

## Management, Information Systems, and Quantitative Methods

Degree Offered:	Master of Science in Management Information Systems (MS MIS)
Director:	Paul M. Di Gangi, Ph.D.
Phone:	(205) 490-8324
Email:	pdigangi@uab.edu
Website:	http:// misdegree.businessdegrees.uab.edu/ lp-mis-short/

## Admission

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page:

<https://businessdegrees.uab.edu/mis-degree-masters/>

## Application Deadlines

Fall semester - July 15th

Spring semester - November 15th

Summer semester- April 15th

## Required Documents

- Online application with a \$70 application fee or \$85 international application fee
- Current resume
- Personal Statement: statement must include the student's professional career goals and how they faced and overcame challenges in their life
- References: 2 from supervisors, trainers, or instructors who can confirm requisite knowledge and skills as identified with the admission qualifications

## Admission Requirements

Applicants for the MS MIS program must:

1. Have graduated with a baccalaureate degree in an information technology/systems related field from a regionally accredited college or university with a minimum overall grade point average (GPA) of 3.0 on a 4.0 scale. Those not meeting this requirement must have:
  - Completed a baccalaureate degree in other areas of study from a regionally accredited college or university, or completed another graduate degree; AND
  - Completed the UAB MS MIS Bridge Program; OR
    - Submitted evidence to UAB as to significant work experience in IS/IT/computer programming, enterprise systems, databases, and/or system design and analysis; OR

- Submitted evidence to UAB as to IS/IT/Computer industry certifications in computer programming, enterprise systems, databases, and/or system design and analysis.

2. Provide evidence of relevant work experience (a minimum of 3 years of experience is preferred)

3. Have a GMAT score of 480 or higher. Those not meeting this requirement can:

- Submit a GRE combined verbal and quantitative score of 1050 (score of 303 after August 1, 2011) or higher (GRE scores many not be more than 5 years old), OR
- Show 5 years of relevant work experience, AND
- Show documentation of completing a graduate degree in any discipline with a minimum GPA of 3.0 on a 4.0 scale

### International Applicants

International applicants whose native language isn't English are required to show proof of English proficiency by submitting a TOEFL, IELTS, or PTE Academic test score. Official test scores are required and should be sent directly from the testing agency to UAB. Scores should not be more than 2 years old. The minimum score requirements are as follows:

- TOEFL (Test of English as a Foreign Language) score of 550 on the paper-based examination, 213 on the computer-based version, or 80 on the Internet-based version
- IELTS (International English Language Testing Service) score of 6.5 overall with at least a 5.0 on each section of the examination

## Management Information Systems

Degree Offered:	Master of Science in Management Information Systems (MS MIS)
Director:	Paul M. Di Gangi, Ph.D.
Phone:	(205) 490-8324
Email:	pdigangi@uab.edu
Website:	http:// misdegree.businessdegrees.uab.edu/ lp-mis-short/

The UAB Collat School of Business, Master of Science in Management Information Systems (MS MIS) program focuses on the business side of information systems and how to strategically position technology to maximize value for an organization. This program provides the broad perspective needed to advance in the information systems management field, and allow students to tailor their education based on specific career goals by focusing in one of two areas: **Cyber Security Management or IT Management**. UAB's emphasis is on the managerial aspects of information systems, and although the program does provide opportunities for skill development in the latest technologies, the goal of the program is to help those currently working in information systems related fields move into managerial positions by improving understanding of how to use the latest information technologies to benefit organizational stakeholders, such as managers, organizations, employees, customers and partners.

The Management of Information Systems field is growing at an exponential rate as organizations struggle to stay current with new and

emerging technologies, such as mobile applications, social media, and business analytics. Professionals are needed that can help organizations understand the business potential of these new technologies, how to develop new applications to meet changing market dynamics, and how to secure these systems from threats. Students graduating from this program are prepared to succeed in an exciting and dynamic career field combining a solid technical information system foundation with business skills so they can immediately contribute to solving business problems, and can drill down into specific fields, such as IT management, web and mobile development or information security.

## Program Details

The MS MIS program is taught completely online. Most students can complete degree requirements within 1.6 years (1 year for full-time students). Concentrations are available in Cyber Security Management and IT Management. Each concentration consists of twelve semester hours. The Collat School of Business is accredited by AACSB–The Association to Advance Collegiate Schools of Business.

### Master of Science in Management Information Systems

Requirements	Hours
<b>MS MIS Program Requirements</b>	
IS 611 Information Technology and Business Strategy	3
IS 612 IT Governance and Management	3
IS 607 Introduction to Cyber Security	3
IS 615 Soc Media/Virtual Communities	3
IS 617 Data Science for Business	3
IS 618 IT Project Management	3
<b>MS MIS Concentration Courses</b>	<b>12</b>
<b>Total Hours</b>	<b>30</b>

### Concentration in Cyber Security Management

Requirements	Hours
IS 620 Cyber Attacks and Threat Mitigation	3
IS 621 Incident Response and Business Continuity	3
IS 613 Information Security Management	3
IS 644 Digital Forensics	3
<b>Total Hours</b>	<b>12</b>

### Concentration in Information Technology Management

Requirements	Hours
IS 640 Technology Planning and Capital Budgeting	3
IS 641 Leadership in IT	3
IS 616 Web Analytics	3
IS 621 Incident Response and Business Continuity	3
<b>Total Hours</b>	<b>12</b>

## College of Arts and Sciences

**Dean:** Dr. Robert E. Palazzo

The College of Arts and Sciences includes departments in the arts, humanities, mathematics, social, behavioral, natural and physical sciences.

The College offers 15 degree programs leading to a master's degree and 7 programs leading to a doctoral degree. Traditional programs as well as interdisciplinary and graduate level certificate programs help to keep the College on the leading edge of progressive academic offerings. Situated at the center of an internationally renowned research university and academic medical center, students and faculty in the College of Arts and Sciences have unparalleled opportunities to be part of the innovative and ground-breaking research and creative work that is the signature of UAB.

We offer a student-centered, experiential curriculum designed to prepare students not only for the careers and challenges of the 21st century, but also to be the leaders in the global marketplace of ideas. Students within arts and sciences programs develop the ability to understand diverse perspectives making them better prepared to work creatively and productively with others to solve the most important problems of our times.

## Interdisciplinary Programs

Interdisciplinary programs of study are increasingly popular as we realize the benefits of multiple perspectives and methods to advance understanding and improve solutions. Students in the College of Arts and Sciences may pursue formal interdisciplinary programs such as the Master's degree in Computer Forensics and Security Management, which involves faculty from the departments of Computer & Information Sciences and Justice Sciences (College of Arts and Sciences), and the Departments of Management, Information Systems Quantitative Methods, and Accounting & Finance (School of Business).

The Departments of Mechanical Engineering and Art & Art History bring their collective expertise and experience together to offer an interdisciplinary Category A certificate program involving an integrated art and engineering curriculum. The Leonardo Art & Engineering Graduate Certificate program provides cross-disciplinary training in simulation, art, visualization, and virtual reality to students with a BS/BA degree in Arts and Sciences, Engineering, Business, or Healthcare-related disciplines for addressing marketing, education/training, entertainment, product development, and design application demand of the 21st century growth area in 3D and VR technologies.

## Computer Forensics and Security Management

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <http://www.uab.edu/cas/computerscience/graduate-programs/masters-programs/mscfsm>

### Program Contact Information

Dr. Nitesh Saxena  
Department of Computer Science  
1300 University Blvd.  
CH 133  
Birmingham, AL 35294-1170  
[saxena@uab.edu](mailto:saxena@uab.edu)

### Program Information

The Master of Science in Cyber-Security (formerly known as Computer Forensics and Security Management) (MSSec) is an interdisciplinary program that prepares graduates for a professional career in the field

of cyber security by developing in them the necessary skills crucial for success. The program also provides current practitioners the opportunity to obtain advanced-level training to facilitate career advancement. The program includes a set of core, required courses and the opportunity to select from a default option or two tracks of specialization.

## Admission Requirements

Students accepted into the program will have earned a bachelor's degree from an accredited college or university or recognized university from abroad. Most of these students will have earned a cumulative undergraduate grade point average (GPA) of 3.0 or higher. Applicants whose native language is not English are required to take either the TOEFL or the IELTS and score 80 or higher on the TOEFL or 6.5 or higher on the IELTS.

**Students seeking admission to the program who lack a background in computer science or information systems but meet the remaining minimum requirements for admission *may* be admitted contingent on them completing a set of prerequisite courses (or their equivalents) that include:**

Requirements	Hours	
CS 103 & 103L	Introduction to Computer Science in Python and Introduction to Computer Science in Python Lab	4
IS 204	Introduction to Business Programming	3

## Master of Science in Computer Forensics and Security Management

**A total of 30 semester hours are required for the degree**, organized into: (a) 15 hours of required core courses, (b) 9-12 hours of course work following a default option or one of the two tracks of specialization, and (c) 3-6 hours of electives from an approved list of relevant courses. The two specialization tracks are Cybercrime Investigations and IT Audit/Fraud Examination.

Requirements	Hours	
<b>Core courses</b>		
CS 534	Networking	3
CS 534L	Networking Laboratory	0
CS 623	Network Security	3
CS 623L	Network Security Laboratory	0
CS 636	Computer Security	3
CS 689	Cyber Risk Management	3
or IS 613	Information Security Management	
CJ 502	Computer Forensics	3
<b>Total Hours</b>		<b>15</b>

In addition to completing the five (5) core courses worth 15 credit hours, students by default may choose three courses worth nine credit hours from the following list of approved courses in cyber security, followed by two additional computer science electives worth six credit hours at the 500+ level or 600+ level<sup>1</sup>. Alternatively, students may choose one of the two tracks of specialization (Cybercrime Investigations and IT Audit/Fraud Examination, both worth 15 credit hours) to fulfill the requirements of the Master's degree.

## Approved Cyber-Security Centric Courses

Requirements	Hours
Choose any three courses	9
CS 645 Modern Cryptography	
CS 646 Digital Currency	
CS 657 Penetration Testing and Vulnerability Assessment	
CS 643 Cloud Security	
<b>Total Hours</b>	<b>9</b>

## Cybercrime Investigations Track

Requirements	Hours
CS 519 Investigating Online Crimes	3
CS 537 Digital Media Forensics	3
CJ 675 Law Evidence and Procedure	3
CJ 696 Graduate Internship in Criminal Justice	3
<b>Choose one (1) CS elective at the 500+ level <sup>1</sup></b>	<b>3</b>
<b>Total Hours</b>	<b>15</b>

## IT Audit/Fraud Examination Track

Requirements	Hours
AC 572 Information Technology Auditing	3
AC 573 Fraud Examination	3
LS 571 Legal Elements of Fraud Investigation	3
<b>Select two (2) courses from the IS courses listed below or approved CS courses <sup>1</sup></b>	<b>6</b>
IS 622 CISSP I	
IS 623 CISSP II	
<b>Total Hours</b>	<b>15</b>

<sup>1</sup> **CS 500-level courses:** CS 501 and CS 501L, CS 510, CS 520 and CS 520L, CS 533 and CS 533L, CS 555, CS 591, CS 592, CS 597, CS 598

**CS 600-level courses:** CS 600, CS 601, CS 602, CS 610, CS 614, CS 616, CS 617, CS 620, CS 621 and CS 621L, CS 622, CS 624, CS 625, CS 626, CS 629, CS 630, CS 631, CS 632, CS 633, CS 634, CS 635, CS 639, CS 640, CS 641, CS 642, CS 646, CS 647, CS 649, CS 651, CS 652, CS 653, CS 654, CS 656, CS 659, CS 660, CS 662, CS 663, CS 665, CS 667, CS 669, CS 670, CS 671, CS 672, CS 673, CS 674, CS 675, CS 676, CS 680, CS 682, CS 683, CS 684, CS 690, CS 691, CS 692, CS 697, CS 698, CS 699

### AC 572. Information Technology Auditing. 3 Hours.

Introduction to the practice of information technology auditing. An emphasis is placed on information technology auditing standards and methodology, as well as guidance on auditing general computer controls and application controls.

### AC 573. Fraud Examination. 3 Hours.

Advanced forensic accounting concepts with a primary focus on occupational fraud and abuse—its origins, perpetration, prevention, and detection.

### CS 537. Digital Media Forensics. 3 Hours.

Digital media forensics addresses all stored digital evidence types faced by cyber security professionals and computer forensics examiners. Students will learn to analyze character encoding, file formats, and digital media, including hard drives, smartphones and other portable devices, and cloud-hosted evidence, as well as disk acquisition, duplication and evidence preservation techniques and how to apply these techniques in typical criminal investigation scenarios.

### CS 537L. Digital Media Forensics Lab. 0 Hours.

Laboratory to accompany CS 537.

### CS 623. Network Security. 3 Hours.

Conventional network security (symmetric and public-key cryptography). Message encryption and authentication. Secure communication between computers in a hostile environment, including E-mail (PGP), virtual private networks (IPSec), remote access (SSH), and E-commerce (SSL), firewalls, intrusion detection and prevention, security of IEEE 802.11 wireless networks (WEP, WPA). Mandatory weekly Linux-based lab.

### CS 623L. Network Security Laboratory. 0 Hours.

Laboratory to accompany CS 623.

### CS 636. Computer Security. 3 Hours.

Study of the breadth of major computer security topics including cyber threats, malware, information assurance, authorization, applied cryptography, web security, mobile and wireless security, network security, systems/software security, database and storage security, user-centered security, and best security practices and countermeasures.

### CS 643. Cloud Security. 3 Hours.

Definition of cloud computing, cloud computing models, privacy, authenticity and integrity of outsourced data, proof of data possession / retrievability, cloud forensics, malware analysis as a service, remote verification of capability and reliability, proof of availability, economic attacks on clouds and outsourced computing, virtual machine security, trusted computing technology and clouds, verifiable resource accounting, cloud-centric regulatory compliance issues and mechanisms, business and security risk models, secure MapReduce, applications of secure cloud computing, private information retrieval and cloud cartography.

### CS 645. Modern Cryptography. 3 Hours.

Theory and practices of modern cryptographic techniques, algorithms and protocols, including formal analysis. Secret key encryption algorithms, public key encryption algorithms, stream ciphers, one-way hashing algorithms, authentication and identification, digital signatures, signcryption, key establishment and management, secret sharing and data recovery, zero-knowledge proofs, public key infrastructures, efficient implementation, cryptanalytic attacks and countermeasures, security models, assumptions and proofs.

### CS 646. Digital Currency. 3 Hours.

Fundamental principles of digital cash systems including Bitcoin, Ripple and other notable cryptocurrencies. Topics to be covered include how a cryptocurrency works, blockchain and other decentralized consensus protocols, proof of work, proof of stake, security and privacy of cryptocurrencies, cryptographic techniques for digital currency, and applications of blockchain in peer-to-peer trust establishment, smart contracts, digital asset management, financial exchanges and distributed autonomous organization.

**CS 654. Malware Analysis. 3 Hours.**

Hands-on course teaching static, dynamic and contextual analysis of malware. Malware analysis and reverse-engineering techniques are taught through interaction with both "classroom" and "wild" malware samples. Defensive and counter-measure techniques for both corporate and law enforcement environments are explored.

**CS 657. Penetration Testing and Vulnerability Assessment. 3 Hours.**

This course focuses on penetration testing and vulnerability analysis. It introduces methodologies, techniques and tools to analyze and identify vulnerabilities in stand-alone and networked applications. It also covers methodologies for legal and standards compliance.

**CS 689. Cyber Risk Management. 3 Hours.**

This course develops knowledge and skills in risk based information security management geared toward preventive management and assurance of security of information and information systems in technology-enabled environments. It focuses on risk assessments, risk mitigation strategies, risk profiling and sensitivity, quantitative and qualitative models of calculating risk exposures, security controls and services, threat and vulnerability management, financing the cost of security risks, and return on investment for information security initiatives. The course presents several risk assessment models with an ultimate goal of identifying and realizing the unique and acceptable level of information risk for an organization.

**IS 613. Information Security Management. 3 Hours.**

Primary objectives of the course are for the student to develop an understanding of key information security concepts, develop an understanding of how people, technology, and organizational policies should be developed and managed to safeguard an organization's information resources, learn how to manage under uncertainty and risk, develop policies and procedures to make information systems secure, and learn how to audit and recover from security breaches.

**LS 571. Legal Elements of Fraud Investigation. 3 Hours.**

Key legal principles and courtroom procedures relevant to forensic accounting, and survey of related topics--criminology theories, evidence management, and litigation services.

**CJ 502. Computer Forensics. 3 Hours.**

Use of analytical and investigative techniques in criminal or civil litigation to identify, collect, examine and preserve evidence/information magnetically stored or encoded.

**CJ 530. Ethics and Computer Forensics. 3 Hours.**

Overview of different systems of ethics; the role of ethics in computer forensics, cybercrime investigation, and information security; examination of ethical issues facing professionals involved in computer forensics, cybercrime investigation, and information security.

**CJ 515. Investigating Online Crimes. 3 Hours.**

Introduction to cyber investigative techniques, involving focused analysis of email and websites; examination of legal process and preparing evidence in cyber crime cases.

**CJ 675. Law Evidence and Procedure. 3 Hours.**

Overview and examination of the legal aspects of physical evidence, including rules of evidence, procedural rules, and the role of expert witnesses.

**CJ 696. Graduate Internship in Criminal Justice. 3 Hours.**

Field experience in criminal justice agency setting. May be repeated for a maximum of 6 hours credit.

## Anthropology

### The Anthropology of Peace and Human Rights Master's Program

Anthropology is the science committed to the comparative and historical study of humankind, looking across different cultural circumstances and into the depths of prehistory. Anthropology literally means the study of humanity and considers the interplay of biological and cultural factors. The Master's program at UAB introduces an innovative focus on peace, justice, human rights, and ecology, as considered from anthropological perspectives. The Anthropology of Peace and Human Rights encompasses knowledge and methodologies from social cultural anthropology, archaeology, and biological anthropology to explore these topics. Students are welcome to approach the Anthropology of Peace and Human Rights from the perspectives of these sub-disciplines. The program focuses on peace justice, sustainability, and human rights at different social levels ranging from individuals, families, communities, cultures, nations, to the international. Students consider how factors such as ecological sustainability, human security, democracy, justice, non-violence, conflict resolution, and human rights are interconnected and related to peace.

Anthropology offers a unique set of perspectives. It can contribute to understanding cultural diversity; reflection on cultural relativism; appreciation of multiculturalism; understanding of effective communication in cross-cultural interactions; knowledge regarding cultural variation in norms, values, beliefs, and culturally-embedded conflict resolution styles; and the development of respect for cultural differences and human rights. This unique knowledge-base and set of perspectives is at the heart of the Master's program's focus on peace and human rights, which contributes to the explicitly stated goals of the UAB College of Arts and Sciences to promote diversity and facilitate students meeting the challenges and opportunities posed by globalization. In accordance with the Strategic Plan of the UAB College of Arts and Sciences, the Anthropology of Peace and Human Rights seeks to "enhance students' global perspective" in an era where "globalization is diminishing the importance of national and political boundaries while increasing the opportunity for international harmony."

The history of the Civil Rights Movement in Birmingham, Alabama constitutes one reason why the development of peace and human rights at UAB is historically and culturally important. The Anthropology of Peace and Human Rights, with its educational purpose, can be seen as the continuation of positive developments made in social justice and civil rights in Birmingham and Alabama over the last half century. The Master's program complements the educational and outreach activities of the recently established UAB Institute for Human Rights (IHR). The IHR and the Department of Anthropology work together on a variety of local and global projects. The Department of Anthropology also hosts the Peaceful Societies website, which provides a valuable educational resource on peaceful societies from around the globe. Anthropology faculty are involved in a variety of research, educational, and service activities, and work regularly with students to help them pursue their academic interests and to develop the skills needed locally and globally in the 21<sup>st</sup> century.

Nationwide, the graduates of peace and conflict studies programs have found positions in human and social services, community mediation organizations, in multicultural education, at legal centers, as U.S. Congressional staffers, at NGOs and human rights organizations, and at the United Nations. In addition to preparing students for such career

paths, the Master's in the Anthropology of Peace and Human Rights aims also to ready students for doctoral studies in peace and human rights areas.

## Educational Outcomes

Upon completion of the Master's program in the Anthropology of Peace and Human Rights, students will gain relevant and marketable skills and knowledge. Learning outcomes include, for example, for students to be able to:

- 1) Thoroughly integrate and critically analyze how factors such as ecological sustainability, human security, democracy, justice, peace, and human rights are interconnected constructs related to the unifying construct positive peace.
- 2) Discuss and explain the kinds of human rights violations that are currently taking place (e.g., against migrants, indigenous peoples, women, and children) and analyze and critically evaluate the types of efforts that are ongoing to enhance and safeguard human rights worldwide.
- 3) Explain how cultural relativism relates (positively and negatively) to the application of human rights standards internationally, and students will develop culturally relativistic communication skills that are respectful of and open to cultural differences and different points of view.
- 4) Draw from multiple anthropologically relevant models and perspectives (e.g., models of socialization-enculturation, third-party mediation, conflict transformation, nonviolent practice, equity, social reciprocity, peace systems, and so forth) in order to apply anthropological and related theories to problems in areas such as conflict resolution, peace education, social justice, and human rights protection.
- 5) Apply conflict resolution principles and draw upon communication and problem-solving skills to facilitate both the analysis of conflict situations and the development of policy recommendations for conflict resolution at various social levels, from the local to the global.

## Program Options: Plan I (Thesis) and Plan II (Exam)

The Anthropology of Peace and Human Rights is a two-year Master's program that requires a total of 36 semester hours. In consultation with an advisor, a student during the first year will make the choice to follow either the Plan I (thesis) or Plan II (no thesis) to complete the master's degree. All students, whether following the Plan I or Plan II path, will take the five required courses, which total to 15 semester hours (see below). Students following Plan I take 5 elective courses (15 semester hours), plus enroll in 6 semester hours of thesis credit. Students opting for Plan II, take 7 elective courses (21 semester hours), and at the end of their studies must pass a final exam that reflects the comprehensive activities of the student in the program, as prescribed in the UAB Graduate Student Handbook.

## Required Curriculum

Five required courses are ANTH 504, ANTH 505, ANTH 508, ANTH 509, & ANTH 652. For all students, two of the five required courses are foundational (to be taken in the first year of study). These two courses, "Human Rights, Peace, and Justice" and "Anthropology of Peace, Justice, and Ecology" (the latter being team taught), are designed to provide an introduction to the topic of the Master's program. A required methods course, "Methods in Peace and Human Rights Research and Practice," can be taken either in the first or second year, and

alternates on the calendar with the required "Conflict Resolution in Cross-Cultural Perspective." (In other words, these two courses will be offered on alternating years). The fifth required course, "Sustainable Peace Seminar," is an advanced seminar, to be taken in the second year of study.

All procedures and requirements listed in the UAB Graduate Student Handbook apply to this program. Whereas the program offers a diverse set of electives, a community internship also may be substituted for one 3 credit elective course. Additionally, recognizing both that the particular interests of students will vary and that certain relevant graduate level courses are offered in other UAB schools and College of Arts and Sciences departments or at the UA Anthropology Department, students will have the option of taking a maximum of two electives (6 credits) from other departments (e.g., Biology, History, or Justice Science). Finally, students can pursue their interests by requesting to work on a Special Problems (independent study) course under the guidance of a professor within the Anthropology Department (e.g., ANTH 587, ANTH 588, or ANTH 686).

## Advising

Upon entry into the Master's program, each student will be assigned an academic advisor from among the Anthropology faculty. The student and advisor will confer and develop a study plan that is in accordance with the student's interests and the requirements of the Master's program. Early on, students can consult with their advisors about whether to pursue either Plan I (thesis) or Plan II (exam). Advisors will be assigned to match as closely as feasible a student's areas of interest and also in such a way as to distribute the advising duties across the Anthropology faculty. Near the end of the first year, students can request to change advisors if they think a particular faculty member's area of expertise aligns with their thesis topic.

## Student Support

Several Graduate Teaching Assistantships and Graduate Research Assistantships are awarded by the Department of Anthropology each semester on a competitive basis. Additionally, some graduate students are employed part-time as assistants on research projects. International students should consult with the Graduate Director about possible tuition reductions. More information can be found [here](#).

## Admissions

The deadline for applications for the fall semester will be early in the spring semester, and the deadline for applications for the spring semester will be in the fall. Please check with the Graduate School or the Graduate Director for exact deadlines. All of the minimum criteria for admission set by the UAB Graduate School must be met, and the Department of Anthropology has some additional admission requirements.

For details on the Graduate School admission requirements, see the Graduate School website. A brief summary of the requirements is as follows:

- An online application and payment of an application fee.
- A personal statement as part of the application that specifies your academic interests, career goals, and relevant background experience, in this case, in relation the Anthropology of Peace and Human Rights program to which you are applying. Include in your personal statement any peace and human rights volunteer work or work experience, and any other relevant information as to why you wish to study in this program.

- A recognized baccalaureate, graduate, or professional degree.
- A 3.0 (B average) grade point average over the last two years of study.
- Previous studies that are acceptable in quality and content to the program (see Departmental Requirement below also).
- One official transcript from each postsecondary school attended.
- If currently enrolled at another institution, applicants must provide both provisional and final transcripts, the latter showing the completion of a degree prior to enrollment in UAB.
- For international students whose first language is not English, the recommended scores specified by the Graduate School on either the TOEFL or the IELTS exam.

The following are additional admission requirements of the Department of Anthropology:

- At least two letters of recommendation.
- Official scores on the Graduate Record Exam (GRE), taken within the last five years.
- Applicants who have not 1) majored in anthropology, 2) minored in anthropology, or 3) taken at least five courses in anthropology, with grades of C or, must pass an online “bridge course” that provides a background in anthropology. This bridge course is to be completed within the first year of Master’s study.

#### Further Information

For more information about the faculty, researchers, direction, and focus of the department, please see our Department of Anthropology web pages.

## Master of Arts in Anthropology of Peace and Human Rights

The M.A. degree requires a minimum of 36 credit hours for the Anthropology of Peace and Human Rights program.

### Plan I

Requirements	Hours
ANTH 504 Human Rights, Peace, and Justice	3
ANTH 505 Anthropology of Peace, Justice, and Ecology	3
ANTH 508 Conflict Resolution in Cross-Cultural Perspective	3
ANTH 509 Methods in Peace & Human Rights Research & Practice	3
ANTH 652 Sustainable Peace Seminar	3
<b>Elective Courses</b> <sup>1</sup>	<b>15</b>
ANTH 512 Peaceful Societies and Peace Systems	
ANTH 513 Peace & Environmental Sustainability	
ANTH 514 Prehistory of War and Peace in North America	
ANTH 515 Peace through Global Governance	
ANTH 516 War & Peace in Ancient Mesopotamia	
ANTH 517 Peace Ethology	
ANTH 518 The Power of Nonviolence	
ANTH 519 Religion, Reconciliation, & Forgiveness	
ANTH 520 Cultural Transformation: Our History, Our Future	
ANTH 521 Technological Monitoring of Human Rights and Conflicts	
ANTH 532 Villains, Victims, & Vigilantes	

ANTH 587	Special Problems in Peace Research	
ANTH 588	Special Problems in Human Rights	
ANTH 601	Forensic Anthropology	
ANTH 633	Anthropology of Development	
ANTH 636	Community Internship	
ANTH 641	Anthropology of Human Rights	
ANTH 645	Medical Anthropology & Health Disparities	
ANTH 650	Nationalism Ethnicity and Violence	
ANTH 654	Biological Anthropology and Contemporary Issues	
ANTH 660	Ecological Anthropology	
ANTH 686	Special Problems in Applied Anthropology	
ANTH 695	Special Problems in Multimedia Anthropology	
ANTH 697	Special Topics in Anthropology <sup>2</sup>	
<b>Thesis</b>		<b>6</b>
ANTH 699	Thesis Research	

### Plan II

Requirements	Hours
ANTH 504 Human Rights, Peace, and Justice	3
ANTH 505 Anthropology of Peace, Justice, and Ecology	3
ANTH 508 Conflict Resolution in Cross-Cultural Perspective	3
ANTH 509 Methods in Peace & Human Rights Research & Practice	3
ANTH 652 Sustainable Peace Seminar	3
<b>Anthropology Electives</b> <sup>1</sup>	<b>21</b>
ANTH 512 Peaceful Societies and Peace Systems	
ANTH 513 Peace & Environmental Sustainability	
ANTH 514 Prehistory of War and Peace in North America	
ANTH 515 Peace through Global Governance	
ANTH 516 War & Peace in Ancient Mesopotamia	
ANTH 517 Peace Ethology	
ANTH 518 The Power of Nonviolence	
ANTH 519 Religion, Reconciliation, & Forgiveness	
ANTH 520 Cultural Transformation: Our History, Our Future	
ANTH 521 Technological Monitoring of Human Rights and Conflicts	
ANTH 532 Villains, Victims, & Vigilantes	
ANTH 587 Special Problems in Peace Research	
ANTH 588 Special Problems in Human Rights	
ANTH 601 Forensic Anthropology	
ANTH 633 Anthropology of Development	
ANTH 636 Community Internship	
ANTH 641 Anthropology of Human Rights	
ANTH 645 Medical Anthropology & Health Disparities	
ANTH 650 Nationalism Ethnicity and Violence	
ANTH 654 Biological Anthropology and Contemporary Issues	
ANTH 660 Ecological Anthropology	
ANTH 686 Special Problems in Applied Anthropology	
ANTH 695 Special Problems in Multimedia Anthropology	
ANTH 697 Special Topics in Anthropology	

#### Comprehensive Exam

**Total Hours** **36**

- Additional elective options can be approved by the program director.
- Approval of special topics courses is required regarding their topical relevance to the program.

## Art History

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/art/areas-of-study/ma-art-history>

Degree Offered:	M.A.*
Director:	Cathleen Cummings, Ph.D.
Phone:	(205) 934-7909
E-mail:	cathleen@uab.edu
Website:	www.uab.edu/art

\* A program leading to the Master of Arts degree in art history is offered jointly by UAB and the University of Alabama (Tuscaloosa). The MA degree in Art History prepares students for further academic study at the doctoral level or for professional careers in museums, galleries, and other arts-related fields.

## Admission Requirements

For admission in good standing, applicants to UAB must meet Graduate School requirements for scholarship and GRE General Test scores. A Minimum GPA of 3.0 (B) is required for acceptance into the program. The applicant should have completed 24 semester hours in art history and related areas such as history, aesthetics, archaeology, and anthropology, although this requirement may be reduced depending on the applicant's background and preparation. It is desirable that an applicant be able to read a foreign language related to the proposed field of study. Students may apply for admission for either the fall or spring semester.

## Degree Requirements

### Courses

Students must complete 24 semester hours in art history. \* Students must take courses in **two** of the following **six** general areas: Medieval Art, Early Modern Art (ca. 1400-1700), Eighteenth-Century/ Nineteenth Century Art, Twentieth-Century/Contemporary Art, South Asian Art, and East Asian Art. It is recommended that students take at least one course outside of these two fields for breadth of knowledge. A maximum of 3 semester hours of independent study will be permitted. Each student must take ARH 680 Methods and Approaches to the History of Art, which should be taken in the first semester of enrollment in the M.A. program. Each student must take at least 6 semester hours of coursework at the University of Alabama (Tuscaloosa).

\* Note: A maximum of 6 of the required hours in art history may be taken in a related field with the concurrence of the joint faculty.

## Foreign Language Requirement

By the completion of 15 hours of coursework towards the M.A., students should have met the language requirement of a reading knowledge of one foreign language relevant to the student's area of study, approved by the Graduate Program Director and Faculty Advisor. Students may demonstrate language competency by passing a translation exam administered by the Department of Foreign Languages (French or German) or by passing a 200-level course (i.e. FR 201 or FR 202 or GN 201 or GN 202). For other languages, students must consult with the Graduate Program Director and Faculty Advisor and arrange an appropriate translation exam or course to fulfill the language requirement. Students may not sit for the M.A. exam until the language requirement is

completed. A reading knowledge of a second foreign language is strongly recommended.

## Comprehensive Examination

For admission to candidacy, the student must pass a comprehensive examination prepared and graded by the joint art history faculty. Written examinations are scheduled twice a year, at the end of fall and spring semesters.

## Thesis

The student must present a thesis under the direction of a member of the joint art history faculty. Each student will register for ARH 699 for 6 semester hours of credit. Students must be registered for at least 3 hours of thesis credit (ARH 699) in the semester of graduation.

## UAB Faculty:

Cummings, Cathleen  
Dallow, Jessica  
McPherson, Heather  
Turel, Noa

## UA-Tuscaloosa Faculty:

Castenell, Wendy  
Curzon, Lucy  
Feltman, Jennifer  
Jones, Tanja  
Stephens, Rachel

## Additional Information

Deadline for Entry Term(s):	Fall or Spring Semester
Deadline for All Application Materials to be in the Graduate School Office:	April 1 for Fall, October 1 for Spring
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applications whose native language is not English.)
Additional Requirements:	Students must provide a writing sample

## Contact Information

For detailed information, contact Dr. Cathleen Cummings, Graduate Program Director, UAB Department of Art and Art History:

Telephone 205-934-7909; Fax (205) 996-6986.  
E-mail [cathleen@uab.edu](mailto:cathleen@uab.edu)

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

## Master of Arts in Art History

Requirements	Hours
ARH 680 Methods and Approaches to the History of Art	3
<b>Foreign Language Competency <sup>1</sup></b>	
<b>Students must complete 24 hours in two of the six general areas listed below</b>	<b>24</b>

**Medieval Art**

ARH 507	The Art of Rome
ARH 519	Arts of Death in the Middle Ages

**Early Modern Art**

ARH 507	The Art of Rome
ARH 521	Italian Renaissance Art
ARH 522	The Birth of Painting: Portable Pictures Across Renaissance Europe
ARH 523	Study Abroad: European Art
ARH 524	Northern Renaissance Art
ARH 530	Eighteenth-Century Art in Europe
ARH 531	European Painting in the Seventeenth Century
ARH 535	Arts of Power in Early Modern Europe
ARH 581	Special Topics: Early Modern Art
ARH 582	Special Topics: Modern Art
ARH 583	Special Topics: Gender and the Visual Arts
ARH 595	Seminar: Early Modern Art
ARH 630	Seminar: Early Modern Art

**Eighteenth-Century/Nineteenth-Century Art**

ARH 540	Nineteenth Century Art I: Neoclassicism, Romanticism, and Realism
ARH 541	Nineteenth-Century Art II: Impressionism and Post-Impressionism
ARH 550	American Art to 1900
ARH 582	Special Topics: Modern Art
ARH 596	Seminar: Modern Art
ARH 640	Seminar: Modern Art

**Twentieth-Century/Contemporary Art**

ARH 560	Twentieth Century Art to 1945
ARH 561	Modern Design
ARH 564	Art Since 1945
ARH 565	Aspects of Contemporary Art
ARH 567	Modern Architecture
ARH 568	Race and Representation
ARH 584	Special Topics: Contemporary Art
ARH 597	Seminar: Contemporary Art
ARH 660	Seminar: Contemporary Art

**East Asian Art**

ARH 570	Tomb Art in East Asia
ARH 573	Japanese Prints and Printmakers
ARH 574	Landscape and Image in East Asia
ARH 575	Japanese Art
ARH 578	Buddhist Arts of East Asia
ARH 588	Special Topics: East Asian Art
ARH 594	Seminar: East Asian Art

**South Asian Art**

ARH 571	Topics in Asian Cinema
ARH 572	Buddhist & Hindu Art in India to 1200
ARH 577	Piety and Power: Art in India after 1200
ARH 579	Study Abroad: Art and Culture of South Asia
ARH 586	Special Topics: South Asian Art
ARH 670	Seminar: South Asian Art

**Comprehensive Examination**<sup>2</sup>**Admission to Candidacy****Thesis**<sup>3</sup>

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## ARH 699 Thesis Research

**Total Hours****33**

- 1 Demonstrate language competency by passing a translation exam. French & German studies must pass FR 201, FR 202 or GN 201, GN 202. Students must consult with the Graduate Program Director and Faculty Advisor.
- 2 For admission to candidacy, the student must pass a comprehensive examination.
- 3 Students must present a thesis. Each student will complete 6 hours of ARH 699 and be registered for at least 3 credits in ARH 699 in the semester of graduation.

## Biology

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/biology/graduate-program/the-ms-program>

Degree Offered	Ph.D., M.S., 5th Year M.S.
Director:	Stephen A. Watts, Ph.D.
Phone:	(205) 934-9685
E-mail:	sawatts@uab.edu
Website:	<a href="http://www.uab.edu/biology/">http://www.uab.edu/biology/</a>

## Program Information

### Areas of Specialization

Graduate students in the M.S. and Ph.D. programs in biology may specialize in research activities at all levels of biological organization, with emphases on ecophysiology, cellular and molecular biology, endocrinology, and ecology of aquatic organisms, or on models related to human disease.

### Admission

For admission in good standing, applicants must meet the following requirements, in addition to the Graduate School's standards: an undergraduate degree in a biological science, B-level scholarship in all biology courses, two semesters of organic chemistry, two semesters of physics, mathematics through calculus, and a minimum of 152 on both the verbal and quantitative portions of the GRE General Test, and a personal statement of career goals. The graduate program director in biology must approve admission on probation or with deficiencies in one of the above requirements. Three letters of evaluation from individuals who have a thorough knowledge of the applicant's academic abilities and potential are also required. It is strongly recommended that a student contact a mentor before applying. Students may enter at the beginning of any semester, with **deadlines of March 1 for summer and fall applicants and October 15 for spring applicants.**

### Coursework, Thesis, and Dissertation

A dissertation embodying the results and analysis of an original experimental investigation is required for Ph.D. candidates. Students in the M.S. program may write a thesis based on a research project (Plan I) or, alternatively, may elect to submit a nonresearch project incorporating a review and analysis of one or more topics of current or historical interest in biology (Plan II).

Since scientific problems encountered today are multifaceted and require multidisciplinary approaches, students are expected to acquire a broad

background in the physical and life sciences. Doctoral students must complete formal course work in or have equivalent training related to six of the following seven areas: ecology, physiology, cell biology, developmental biology, genetics, microbiology, and molecular biology. Master's students must have competency in five of these life-science areas. Each student is also expected to satisfactorily complete a course or sequence in biometry and any advanced courses designated by the student's graduate study committee consistent with the chosen area of specialization.

Each student must also enroll in three seminar courses approved by his or her graduate study committee, and one of the seminars must be outside the student's primary area of specialization. Also, each student is required to demonstrate proficiency in teaching by delivering formal course lectures or by conducting instructional laboratories. Certificates for advanced training in teaching are also available.

## Examinations

To qualify for candidacy, a student in the Plan I master's program must satisfactorily complete either a written or an oral comprehensive examination. A doctoral student must take both written and oral comprehensive examinations. As part of a student's final defense of his or her dissertation or thesis, a public departmental seminar must be presented.

## Class A Teaching Certification

Under the Alabama Department of Education's "Strengthened Subject Matter Option," students who complete requirements for the master's degree in biology can also receive class A teaching certification, providing that certain prerequisites and requirements are met. Complete details are available from the School of Education Certification Office, EB 100, 1530 3rd Avenue South, Birmingham, Alabama 35294-1250 (Telephone 205-934-5423).

## Additional Information & Mailing Address

Deadline for Entry Terms:	Each semester
Deadline for All Application Materials to be in the Graduate School Office:	March 1 for summer and fall; October 15 for spring admission
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

## Contact Information

For detailed information contact Dr. Stephen A. Watts, Graduate Program Director, UAB Department of Biology, CH 375, 1720 2nd Avenue South, Birmingham, Alabama 35294-1170.  
Telephone 205-934-9685  
Fax 205.975.6097  
E-mail [sawatts@uab.edu](mailto:sawatts@uab.edu)  
Web <http://www.uab.edu/uabbio>

## Physical Address

UAB Department of Biology, Campbell Hall, Room 464, 1300 University Blvd., Birmingham, Alabama 35294-1170.

## Chemistry

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/chemistry/graduate-program>

Degree Offered:	Ph.D., M.S.
Director:	Aaron L. Lucius, Ph.D.
Phone:	(205) 934-8096
Fax:	(205) 934-2543
E-mail:	<a href="mailto:allucius@uab.edu">allucius@uab.edu</a>
Website:	<a href="http://www.uab.edu/cas/chemistry">www.uab.edu/cas/chemistry</a>

## Program Information

The UAB Department of Chemistry offers graduate programs leading to the Doctor of Philosophy (Ph.D.) and Master of Science (M.S.) degrees that are designed to ensure disciplinary quality and research competency. The Department of Chemistry has an outstanding research active faculty and highly collaborative culture that is conducive to stimulating graduate studies in a collegial atmosphere. The graduate program in the Department of Chemistry provides opportunities for research mentors to provide personalized attention to the academic and research progress of each of our graduate students.

Key features of the Department of Chemistry Graduate Program:

- Students are quickly integrated into research laboratories (ideally in first semester)
- Research is highly collaborative, both within the Department of Chemistry and the UAB biomedical research complex
- Interdisciplinary programs to broaden research interests including drug discovery, advanced materials, biophysical chemistry, structural biology, and nanomaterials
- Strong record of career success for graduates in academia, industry, and government

All graduate students are required to pursue a graduate curriculum that provides the general knowledge-based foundation through a series of six core curriculum courses (18 semester hours). All students are required to pass the Foundations Courses.. At least four additional chemistry core courses (12 semester hours) are selected by the student and the student's graduate committee. The graduate student and the graduate research mentor (in consultation with the student's graduate research committee) select additional graded graduate courses to complete a minimum of 24 semester hours. There is no semester hour requirement for additional course work but the student must complete a minimum of 24 semester hours of graduate coursework with an overall GPA of 3.0 or higher. Chemistry graduate students may also participate in and enroll in interdisciplinary graduate programs, requiring enrollment in courses in other departments throughout the UAB campus that will broaden the students background in selective areas and greatly strengthen their ability to carry out interdisciplinary research.

All graduate students are to demonstrate communication skill competency. Adequate performance is required on the departmental literature seminar, written responses to essay questions, dissertation defense, teaching, written publications, and professional presentations at scientific meetings. All chemistry graduate students are required to complete GRD 715 (Graduate Teaching Assistantship Training) during their first term in the program. Students with English as a second

language enroll for 3 semester hours. All others enroll in this course for 2 semester hours. This course is required but is not counted toward the 24 semester hour minimum.

During the Fall semester, first year graduate students are required to enroll in CH 790 (Introduction to Graduate Research). The student will be introduced to the graduate research faculty and their research interests. The student is required to meet with prospective research mentors to discuss interest in the prospective mentor's laboratory and if needed, schedule a 3-4 week rotations in research laboratories of interest. The process of selecting the graduate research mentor must be completed by the end of the student's first year.

Core Courses:

Requirements	Hours
CH 629/729 Special Topics in Physical Chemistry	3
CH 631/731 Organic Reactions and Their Mechanisms	3
CH 632/732 Organic Reactions and Synthesis	3
CH 633/733 Reactive Intermediates and Conservation of Bonding	3
CH 639/739 Special Topics in Organic Chemistry	1-3
CH 642/742 Organometallic Chemistry and Catalysis	3
CH 649/749 Special Topics in Inorganic Chemistry	1-3
CH 659/759 Special Topics in Analytical Chemistry	3
CH 664/764 Biophysical Chemistry	3
CH 669/769 Special Topics in Biochemistry	3
CH 671/771 Medicinal Chemistry and Drug Discovery	3
CH 689/789 Special Topics in Polymer Chemistry	3
<b>Total Hours</b>	<b>32-36</b>

Substitutions are permitted with the approval of the student's research advisory committee and director of the graduate program. Master's students choose from the 600 courses, Ph.D. students from the 700 courses.

## M.S. Program

### Plan I

Plan I is a research program that requires a minimum of 24 semester hours (including 18 semester hours of core courses) of formal academic coursework approved by the student's graduate study committee. The progress of the student's research program is monitored by the graduate study committee. The student, having been admitted to candidacy and having completed an approved plan of research, will complete and defend a thesis.

### Plan II

Plan II is a non-thesis program that requires a minimum of 30 semester hours (including 18 semester hours of core courses) of appropriate graduate work that has been approved by the student's graduate study committee and Department of Chemistry Graduate Program Director.

Entry Term	Deadline
Deadline for Entry Term(s)	Each semester
Deadline for All Application Materials to be in the Graduate School Office	Six weeks before term begins
Number of Evaluation Forms Required	Three

Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments	None

## 5<sup>th</sup> Year Master's Degree in Biochemistry

This is a research intensive degree program and to be eligible for admission in the senior year, students must start their undergraduate research experience as early as possible, preferably in their sophomore year.

### Admission Requirements:

- Achieved status of Senior chemistry major
- GPA of 3.0 or higher
- Enrolled in CHEM 297 (Introduction to Undergraduate Research) by the Fall semester of the Junior year
- Selection of faculty research mentor (in the Department of Chemistry or Department of Biochemistry & Molecular Genetics) by Spring semester of the Junior year and enroll in CHEM 497 (Undergraduate Research) by Spring semester of the Junior year

Admission to the 5<sup>th</sup>-year MS program will additionally require:

- Satisfactory performance on Graduate Record Exam (GRE) taken in the Senior year (first term)
- Strong letter of nomination for admission to the program from their undergraduate research mentor

The 5<sup>th</sup>-year M.S. Chemistry/Biochemistry Oversight Committee, composed of two faculty members from the Department of Chemistry (including the Department of Chemistry Graduate Program Director) and two faculty members from the Department of Biochemistry (GBS-BSSB theme including the GBS-BSSB Graduate Program Director) will review applicants and approve admission to the program.

For detailed information, contact Ms. Laura J. Knighten, Graduate Recruitment Coordinator, 1720 2nd Avenue South, Birmingham, AL 35294-1240.

Telephone 205-934-8139 | E-mail [knighten@uab.edu](mailto:knighten@uab.edu) | Web [www.uab.edu/cas/chemistry](http://www.uab.edu/cas/chemistry)

## Ph.D. Program

For Ph.D. students, there are no specific course requirements beyond the core courses. The academic program is determined through the action of the student's graduate research mentor and graduate research committee. The student is required to successfully complete their departmental seminar by the end of their second year. A written qualifying examination must be passed in the student's area of specialization. If failure occurs, only one repeat exam is allowed. An original research proposal must be successfully defended within 12 months of completion of the written qualifying examination. If failure occurs, one repeat defense is allowed. Once admitted to candidacy for the Ph.D. degree, the student must write and successfully defend a research dissertation.

## Communication Studies

The Department of Communication Studies is concerned with human interaction and communication in all its forms. The Communication Studies Department provides research, teaching and service to enable students to develop understanding and skills in order to thrive in a global communication environment of unremitting change and increasing diversity. To this end the department offers an undergraduate major in Communication Studies, and graduate courses leading to a Master of Arts in Communication Management.

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/communication/graduate-program>

## Master of Arts in Communication Management

The program requires a total of 36 semester hours. Of the 36, no more than 6 hours can be CM 699 (Plan I), no more than 6 hours can be CM 698 (Plan II), and no more than 6 hours can be CM 618 (both Plan I and Plan II). 6 hours of additional coursework may be taken in lieu of a Plan II project. A grade of A or B is required in each course to count toward the degree.

### Plan I - 36 hours with Thesis

Requirements	Hours
Select 10 classes from list below <sup>1,2</sup>	30
CM 601 Foundations of Communication Management	
CM 602 Source Credibility	
CM 603 Message Construction	
CM 604 Analysis of Communication Audiences	
CM 605 Communication Effects	
CM 607 Seminar in Applied Communication Research	
CM 609 Communibiology	
CM 610 Instructional Communication	
CM 611 Seminar in Org Communication	
CM 612 Instructional Communication	
CM 613 Nonverbal Communication	
CM 614 Seminar: Political Communication	
CM 615 Intercultural Communication	
CM 616 Health and Med Communication	
CM 617 Training and Development in Communication	
CM 618 Communications Independent Study	
CM 619 Communication and the Law	
CM 620 Persuasion	
CM 621 Seminar in Small Group Dynamics	
CM 622 Interpersonal Communication and Relationships	
CM 624 Special Topics in Communication Theory and Research	
CM 630 Seminar in Research Classics	
CM 675 Graduate Internship	
CM 690 Communication Theory	
CM 691 Seminar in Communication Models	
CM 694 Quantitative Communication Research	
CM 695 Data Analysis for Quantitative Communication Research	
CM 696 Qualitative Communication Research	
<b>Thesis Research</b>	<b>6</b>

CM 699 Thesis Research

Thesis	Hours
<b>Total Hours</b>	<b>36</b>

### Plan II - 36 hours with Comprehensive Exam

Requirements	Hours
Select 10 classes from list below <sup>1,2</sup>	30
CM 601 Foundations of Communication Management	
CM 602 Source Credibility	
CM 603 Message Construction	
CM 604 Analysis of Communication Audiences	
CM 605 Communication Effects	
CM 607 Seminar in Applied Communication Research	
CM 609 Communibiology	
CM 610 Instructional Communication	
CM 611 Seminar in Org Communication	
CM 612 Instructional Communication	
CM 613 Nonverbal Communication	
CM 614 Seminar: Political Communication	
CM 615 Intercultural Communication	
CM 616 Health and Med Communication	
CM 617 Training and Development in Communication	
CM 618 Communications Independent Study	
CM 619 Communication and the Law	
CM 620 Persuasion	
CM 621 Seminar in Small Group Dynamics	
CM 622 Interpersonal Communication and Relationships	
CM 624 Special Topics in Communication Theory and Research	
CM 630 Seminar in Research Classics	
CM 675 Graduate Internship	
CM 690 Communication Theory	
CM 691 Seminar in Communication Models	
CM 694 Quantitative Communication Research	
CM 695 Data Analysis for Quantitative Communication Research	
CM 696 Qualitative Communication Research	
<b>Master's Applied Project</b>	<b>6</b>
CM 698 Master's Applied Project	

Comprehensive Exam	Hours
<b>Total Hours</b>	<b>36</b>

- Up to 6 hours graduate work may be transferred from an accredited graduate program (Non-UAB) with approval from the Graduate Director.
- Up to 6 hours of graduate work (600 or above) in another department at UAB may be applied with approval of the Graduate Director.

## Computer Science

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <http://www.uab.edu/cas/computerscience/graduate-programs/masters-programs/mscs>

Degree Offered:	Ph.D., M.S.
Director:	Chengcui Zhang, Ph.D.
Phone:	(205) 934-8606
E-Mail:	czhang02@uab.edu

Website: <http://www.uab.edu/cas/computerscience/graduate-programs>

## Program Information

The field of computer science deals with theory and methods for processing of information. Graduate programs leading to the M.S. and Ph.D. degrees are designed to prepare individuals for professional and research-level careers in industry, government, and academia. Prospective students should have substantial background in computer science and mathematics.

## M.S. Programs

The M.S. program requires 24 semester hours of coursework plus 6 semester hours of thesis research and a thesis (Plan I) or 30 semester hours of coursework (Plan II). Specializations are available in bioinformatics, computer graphics, and distributed computing. CS and CJ (Dept. of Criminal Justice) also jointly offer the MS in Cyber-Security. For details, please check the Cyber-Security catalog.

## Ph.D. Program

The Ph.D. program consists of three phases (with some overlap between phases). The first phase of the program is devoted primarily to formal coursework and preparation for the qualifying examination. The second phase consists of coursework and research in preparation for the comprehensive examination. This examination requires presentation of a dissertation research proposal. Successful completion of this phase leads to admission to candidacy. The final phase is the completion of the dissertation research and its defense. Ph.D. student progress will be reviewed annually.

## Application Deadlines

Masters Program in Computer Science	April 15 for Fall; October 1 for Spring.
Masters Program in Cyber-Security	March 1 for Summer; June 1 for Fall; November 1 for Spring.
Doctoral Program in Computer Science	January 15 for Fall; September 1 for Spring.

## Contact Information

For detailed information, after first visiting the website below for basic information including application guidelines and prerequisites, contact Dr. Chengcui Zhang, Associate Professor and Graduate Program Director, UAB Department of Computer Science, Campbell Hall, Room 127, 1300 University Boulevard, Birmingham, Alabama 35294-1170.

Telephone 205-934-8606

E-mail [czhang02@uab.edu](mailto:czhang02@uab.edu) ([puri@uab.edu](mailto:puri@uab.edu))

Web <http://www.uab.edu/cas/computerscience/graduate-programs>

## Master of Science in Computer Science

### Plan 1 - 30 hours with Thesis

Requirements	Hours
Select 21 credit hours of CS courses at the 500+ level <sup>1,2</sup>	21
Allowed Electives from other disciplines	3
MA 692 Special Topics in Mathematics <sup>3</sup>	

CS 699	Master's Thesis Research	6
<b>Total Hours</b>		<b>30</b>

### Plan II - 30 hours

Requirements	Hours
Select 27 credit hours of CS courses at the 500+ level <sup>1,2</sup>	27
Allowed Electives from other disciplines	3
MA 692 Special Topics in Mathematics <sup>3</sup>	
<b>Total Hours</b>	<b>30</b>

- 1 No more than four (3) 500 level courses can count towards the MS degree
- 2 No more than one (1) directed reading course can count towards the MS degree
- 3 May substitute any other graduate level course approved by the graduate program director

## Concentration offered but not required

### Concentration in Bioinformatics

Requirements	Hours
CS 640 Foundations in Bioinformatics	3
CS 641 Algorithms in Bioinformatics	3
Select three (3) electives from the list below	9
CS 610 Database Systems	
CS 631 Distributed Systems	
CS 649 Bioinformatics Research Project	
CS 652 Advanced Algorithms and Applications	
CS 675 Data Visualization	
CS 683 Open Source Security Systems	
<b>Total Hours</b>	<b>15</b>

### Concentration in Graphics

Requirements	Hours
CS 670 Computer Graphics	3
CS 671 Shape Design	3
or CS 672 Geometric Modeling for Computer Graphics	
Select three (3) electives from the list below	9
CS 653 Computational Geometry	
CS 671 Shape Design	
CS 672 Geometric Modeling for Computer Graphics	
CS 673 Computer Vision and Convolutional Neural Networks	
CS 675 Data Visualization	
CS 679 Computer Graphics Research Project	
CS 680 Matrix Algorithms for Data Science	
<b>Total Hours</b>	<b>15</b>

### Concentration in Parallel and Distributed Computing

Requirements	Hours
CS 630 Computer Architecture	3
CS 631 Distributed Systems	3
Select three (3) electives from the list below	9
CS 632 Parallel Computing	
CS 633 Cloud Computing	

CS 639	Distributed Computing Research Project	
CS 659	Multiprocessor Programming	
<b>Total Hours</b>		<b>15</b>

## Ph.D. in Computer Science

Ph.D. students must meet the minimum course credit requirement of UAB Graduate School and may take any course from our graduate catalog and any graduate course approved by their dissertation advisor and the graduate program director.

### Degree Requirements:

The program consists of three phases or levels. Level 1 is devoted primarily to formal CS coursework and preparation for a written survey and critique covering the breadth of a research area and an oral presentation of the work. Level 2 consists of additional CS coursework and research in preparation for the comprehensive examination, which requires presentation of a dissertation research proposal. Successful completion of this phase leads to admission to candidacy. The final phase (Level 3) is the completion of the dissertation research and its defense.

There is a residency requirement of at least one consecutive academic year of full-time study.

Requirements	Hours
<b>Computer Science Courses</b>	
Select 45 hours from the Computer Science courses at the graduate level (24 hours if entering with a master's degree appropriate to CS field)	45
GRD 717 Principles of Scientific Integrity	3
<b>Dissertation</b>	24
CS 799 Dissertation Research	
<b>Total Hours</b>	72 (if entering with a baccalaureate degree) 51 (if entering with a master's degree)

## Department of Criminal Justice

The Department of Criminal Justice is home to multiple graduate programs, including programs of study leading to the Master of Science in Criminal Justice (p. 53) (MSCJ), the Master of Science in Forensic Science (p. 55) (MSFS), the Master of Science in Computer Forensics and Security Management (p. 42), and "A" and "B" graduate certificates in Computer Forensics. The department also co-sponsors a joint MSCJ/MPA program with the Department of Government.

## Computer Forensics Certificate

Requirements	Hours
CJ 502 Computer Forensics	3
CJ 675 Law Evidence and Procedure	3
CJ 515 Investigating Online Crimes	3
CJ 537 CyberCrime and Forensics	3
FS 670 Elements of Forensic Science	3

CS 534	Networking	3
CS 689	Cyber Risk Management	3
<b>Total Hours</b>		<b>21</b>

## Criminal Justice

Degree Offered:	M.S.C.J.
Director:	Hayden Griffin, Ph.D.
Phone:	(205) 934-2069
E-mail:	hgriffin@uab.edu
Website:	<a href="http://www.uab.edu/cas/criminaljustice/">http://www.uab.edu/cas/criminaljustice/</a>

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <http://www.uab.edu/cas/criminaljustice/graduate/mscj>

## Program Information

The criminal justice graduate program requires study in the overall discipline, with intensive focus on the areas of criminal justice policy, criminal justice administration, research methods and statistics, and criminological theory. Beyond a core set of required courses, the program features a **Thesis Track** (Plan I) designed for students interested in pursuing a doctorate in criminal justice or criminology, and a **Non-Thesis Track** (Plan II) designed for students interested in pursuing entry- or advanced-level positions in a criminal justice or related agency setting. Students selecting the Plan I option are **required** to complete a Thesis project under a faculty adviser, while students selecting the Plan II track are **required** to complete a Demonstration Project and are strongly encouraged to complete a field placement (Internship).

Each year, students are admitted to the M.S.C.J. program for the fall term. **The application deadline for receipt of all admission materials by the Graduate School is July 1 each year.** Students **may** be admitted to the M.S.C.J. program "in good standing" provided they meet all minimum admission criteria established by the Graduate School and the program, which include having taken an introductory-level statistics course and an introductory-level research methods course in which a grade of "B" or better was earned. Most students admitted to the program have earned a cumulative undergraduate grade point of average (GPA) of 3.0 or higher on a 4.0 scale **and** earned a combined score on the verbal and quantitative sections of the Graduate Record Examination (GRE) of 300 or higher. Students who otherwise meet minimum admission criteria but who have not taken both the statistics and the research methods courses **may** be admitted to the M.S.C.J. program on a "contingency" basis. Students so admitted will **not** be allowed to register for graduate coursework until the contingencies are removed. Students meeting the minimum requirements for admission including taking the statistics and research methods courses but who lack a substantive background in criminal justice **may** be admitted to the M.S.C.J. program on a "contingency" basis, but will be required to take remedial coursework before they will be allowed to register for any graduate courses.

The recommended course sequence for the Plan I MSCJ degree is:

**Semester 1 (Fall):** CJ 600, CJ 601, CJ 606

**Semester 2 (Spring):** CJ 583, CJ 605, Elective 1

**Semester 3 (Fall):** CJ 603, CJ 604, CJ 699

**Semester 4 (Spring):** CJ 699, Elective 2

The recommended course sequence for the Plan II MSCJ degree is:

**Semester 1 (Fall):** CJ 600, CJ 601, CJ 606

**Semester 2 (Spring):** CJ 583, CJ 605, Elective 1

**Semester 3 (Fall):** CJ 603, CJ 604, Elective 2

**Semester 4 (Spring):** CJ 697/CJ 698, Elective 3 (recommended CJ 693/CJ 696), Elective 4

## M.S.C.J. Online

Students who wish to take courses on line may complete all or part of the MSCJ completely on line. There is no "on line degree," it is the same degree regardless of how the courses are taken. Students may take some courses in class and some on line, or may complete the MSCJ completely on line.

The Online MSCJ Degree is designed to mirror the in-class Non-Thesis Plan II degree. Students enrolled in the online degree are required to take the same courses as the Plan II degree — but the courses may taken 100% online. The degree is structured so that students can graduate in 4 semesters (fall, spring, summer, fall) by taking 9 hours each semester.

Students are required to complete a Demonstration Project (CJ 697) to display their mastery of the core courses. Specifically, students will complete a research paper that shows they can synthesize a body of literature, create a research question, use appropriate research methods to evaluate the question, and discuss implications (both theory and policy) of the findings. Students are required to work with a faculty member to oversee the project. In their second semester, students will be required to write a brief proposal discussing their topic and potential sources of data. After completing this proposal, they will send it to the Program Director who will then assign a faculty chair based on best fit with the topic. Students can request to work with faculty members, but this does not guarantee they will be assigned to that faculty member. Once a chair is determined, the faculty chair and student will work together until the chair deems the project acceptable.

Under special circumstances, and with permission from the Program Director, students may be allowed to complete a Thesis through the online MSCJ program. In such cases, the student will take 6 hours of Thesis in place of one elective and the Demonstration Project.

The recommended course sequence for the on line MSCJ degree is:

**Semester 1 (Fall):** CJ 600, CJ 601, CJ 606

**Semester 2 (Spring):** CJ 583, CJ 605, Elective 1

**Semester 3 (Summer):** CJ 603, CJ 604, Elective 2

**Semester 4 (Fall):** CJ 697/CJ 698, Elective 3, Elective 4

## Financial Aid

Students who are admitted to the M.S.C.J. program "in good standing" are eligible to receive department-based financial aid in the form of graduate assistantships or scholarships that are awarded on a competitive basis. Students are typically notified of such awards in early June of each year for the following fall.

## Additional Information

Deadline for Entry Term(s):	Fall
Deadline for All Application Materials to be in the Graduate School Office:	July 1
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

## Contact Information

For detailed information contact Dr. Hayden Griffin, Department of Criminal Justice, University of Alabama at Birmingham, 1201 University Boulevard Office Building, Suite 210, Birmingham, Alabama 35294-4562. Telephone: 205-934-2069  
E-mail [hgriffin@uab.edu](mailto:hgriffin@uab.edu) ([jhcopes@uab.edu](mailto:jhcopes@uab.edu))  
Web <http://www.uab.edu/cas/criminaljustice/>

## Master of Science in Criminal Justice

### Plan 1 - 30 hours with Thesis <sup>1</sup>

Requirements	Hours
CJ 583 Patterns in Crime	3
CJ 600 Pro-Seminar in Criminal Justice	3
CJ 601 Seminar in Criminological Theory	3
CJ 604 Seminar in Criminal Justice Policy	3
CJ 605 Seminar in Research Design	3
CJ 606 Seminar in Data Analysis	3
Thesis Research <sup>2</sup>	6
CJ 699 Thesis Research	
CJ Electives <sup>3</sup>	6
<b>Total Hours</b>	<b>30</b>

- Students can take up to 6 hours of independent study (CJ 695) and/or up to 9 hours of directed non-thesis research (CJ 698)
- Minimum of 6 hours of CJ 699 required.
- CJ 500+ level courses or substitute approved by a graduate program director

### Plan II - 36 hours

Requirements	Hours
CJ 583 Patterns in Crime	3
CJ 600 Pro-Seminar in Criminal Justice	3
CJ 601 Seminar in Criminological Theory	3
CJ 603 Seminar in Criminal Justice Administration	3
CJ 604 Seminar in Criminal Justice Policy	3
CJ 605 Seminar in Research Design	3
CJ 606 Seminar in Data Analysis	3
Research Project <sup>1</sup>	6
CJ 697 Graduate Plan II Research Project	
CJ Electives <sup>2</sup>	3
<b>Total Hours</b>	<b>30</b>

- 1 Minimum of 6 hours of CJ 697 required.
- 2 CJ 500+ level courses or substitute approved by a graduate program director

## Requirements for a Dual Degree - Master of Science in Criminal Justice and Master of Public Administration

Requirements	Hours
CJ 583 Patterns in Crime	3
CJ 600 Pro-Seminar in Criminal Justice	3
CJ 601 Seminar in Criminological Theory	3
CJ 604 Seminar in Criminal Justice Policy	3
CJ 605 Seminar in Research Design	3
CJ 606 Seminar in Data Analysis	3
Electives <sup>2</sup>	12
<b>Total Hours</b>	<b>30</b>

- 1 Other courses at 500 level or above may apply with CJ Grad Director approval, except courses in MPA that are required for the MPA.
- 2 500 level or above.

## Forensic Science

Degree Offered	M.S.F.S.
Director	Elizabeth Gardner, Ph.D.
Phone	(205) 934-2069
E-mail	eagard@uab.edu
Website	<a href="http://www.uab.edu/cas/justice-sciences/graduate-programs/master-of-science-in-forensic-science-msfs">http://www.uab.edu/cas/justice-sciences/graduate-programs/master-of-science-in-forensic-science-msfs</a>

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <http://www.uab.edu/cas/criminaljustice/graduate/msfs>

## Program Information

The Master of Science in Forensic Science program is designed to prepare individuals for careers in various forensic science and conventional analytical laboratories, emphasizing the application of scientific methods and technologies to legal proceedings. With thoughtful planning, many students have found the program helpful in building a strong foundation to pursue doctoral studies.

The program support includes many UAB faculty members from other departments, personnel from the Alabama Department of Forensic Sciences' Birmingham laboratory, the Jefferson County Medical Examiner's Office, and local forensic science-related private institutions. In addition, the program maintains a close working relationship with the DNA profiling laboratories of the Alabama Department of Forensic Sciences and hosts the editorial offices of the Forensic Science Review (the only review journal in forensic science). Faculty research and practice focus especially on forensic aspects of drug chemistry and DNA-based identification.

Minimum admission requirements include a B.S. degree from accredited programs in Chemistry, Biology, or Forensic Science. Coursework is

designed for qualified students to begin in fall and complete the program in 21 months. Admission is granted for the fall term only.

According to the National Institute of Justice, students wishing to pursue a career in forensic science should be aware that positions in these fields usually require extensive background checks similar to those required for law enforcement personnel, and are likely a condition of employment. (National Institute of Justice, 2004. Education and Training in Forensic Science: A Guide for Forensic Science Laboratories, Educational Institutions, and Students. NCJ Report 203099. Washington, DC: United States Department of Justice, pp. 7-10).

Graduates from the UAB Master of Science in Forensic Science program are very successful in gaining employment within a year of graduating. During the period 2012-2015, 31 students completed the program. Of these, 28 are working in a laboratory or continuing their education (e.g., pursuing a doctorate, professional degree, or second master's degree). Eighteen of the graduates are employed in forensic science laboratories, ranging from those operated by the Alabama Department of Forensic Sciences to the Greensboro N.C. Police Department.

## Additional Information

Deadline for Entry Term(s)	Fall
Deadline for All Application Materials to be in the Graduate School Office	January 31. Later applications will be considered before April 30th if vacancies are available
Number of Evaluation Forms Required	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact Dr. Elizabeth Gardner, UAB Department of Justice Sciences, 1201 University Blvd., Suite 210, Birmingham, Alabama 35294-4562.  
 Telephone: 205-934-2069  
 E-mail: [eagard@uab.edu](mailto:eagard@uab.edu)  
 Physical Address (for directions): 1201 University Blvd. Suite 210, Birmingham, AL 35294.

## Master of Science in Forensic Science

A minimum GPA of 3.0 is required.

### Plan I - 42 hours with Thesis

Requirements	Hours
GRD 708 Writing Successfully	1
FS 567 Forensic Toxicology	3
FS 670 Elements of Forensic Science	3
FS 671 Conventional Criminalistics	3
FS 673 Forensic Drug Analysis	3
FS 674 Molecular Biology in Forensic Science	3
CJ 675 Law Evidence and Procedure	3
<b>Forensic Seminar (taken twice)</b>	<b>6</b>
FS 679 Seminar in Forensic Science	
FS 699 Thesis Research in Forensic Science	6
<b>Leveling Courses (requirements vary by undergraduate background)</b>	

CH 550 & 550L	Instrumental Analysis for Graduate Study and Instrumental Analysis Laboratory for Graduate Study	
CH 561	Advanced Biochemistry I	
CH 555 & 555L	Quantitative Analysis for Graduate Study and Quantitative Analysis I for Graduate Study Lab	
BY 511	Molecular Genetics	
<b>Electives</b>		
FS 672	Advanced Conventional Criminalistics	
FS 676	Advanced Biological Methods in Forensic Science	
FS 677	Advanced Drug Chem. & Toxicology	
BST 611	Intermediate Statistical Analysis I	
BST 601	Biostatistics	
FS 680	Graduate Internship in Forensic Science	
<b>Total Hours</b>		42

## Plan II - 39 hours

Requirements	Hours
GRD 708 Writing Successfully	1
FS 567 Forensic Toxicology	3
FS 670 Elements of Forensic Science	3
FS 671 Conventional Criminalistics	3
FS 674 Molecular Biology in Forensic Science	3
FS 673 Forensic Drug Analysis	3
CJ 675 Law Evidence and Procedure	3
CJ 698 Directed Research (Non-Thesis)	6
<b>Forensic Seminar (taken twice)</b>	6
FS 679 Seminar in Forensic Science	3

### Leveling Courses (requirements vary by undergraduate background)

CH 550 & 550L	Instrumental Analysis for Graduate Study and Instrumental Analysis Laboratory for Graduate Study	
CH 561	Advanced Biochemistry I	
CH 555 & 555L	Quantitative Analysis for Graduate Study and Quantitative Analysis I for Graduate Study Lab	
BY 511	Molecular Genetics	
<b>Electives</b>		
FS 672	Advanced Conventional Criminalistics	
FS 676	Advanced Biological Methods in Forensic Science	
FS 677	Advanced Drug Chem. & Toxicology	
BST 611	Intermediate Statistical Analysis I	
BST 601	Biostatistics	
FS 680	Graduate Internship in Forensic Science	
<b>Total Hours</b>		39

## English

Degree Offered:	M.A.
Director:	Kyle Grimes, Ph.D.
Phone:	(205) 934-8593
Email:	kgrimes@uab.edu
Website:	www.uab.edu/english

## Admission Requirements

For admission in good standing, applicants must meet the Graduate School's requirements for scholarship. The applicant should normally

have finished the requirements for an undergraduate degree in English with at least a 3.0 GPA. A generally well-prepared applicant who is lacking in some part of the undergraduate preparation may be admitted with the provision that any deficiencies be removed by a time specified by the graduate program director.

## Program Description

Students in the graduate program are required to take a total of 31 hours of coursework including one hour of EH 605 ("Introduction to Graduate Studies in English") and at least nine hours of literature classes. In addition, Plan I students must take six hours of EH 699 ("Thesis Research") and must complete and successfully defend a masters thesis; Plan II students must take at least three hours of EH 698 ("Directed Studies") and must propose and then pass a "30-books" examination. All students must take at least 15 hours of coursework at the 600-level, including no more than three hours of EH 698 or EH 699. More detailed coursework options are presented on the English Department website.

## Additional Information

Deadline for Entry Term(s):	Each semester
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three

For detailed information, contact Dr. Kyle Grimes, Graduate Program Director, Department of English HB 207F, 1720 2nd Avenue South, Birmingham, AL 35294-1260.

Telephone 205-934-8580

E-mail [EnglishGrad@uab.edu](mailto:EnglishGrad@uab.edu)

Web <http://www.uab.edu/cas/english/academic-programs>

## Master of Arts in English

Students in the graduate program are required to take a total of 31 hours of coursework including one hour of EH 605 ("Introduction to Graduate Studies in English") and at least nine hours of literature classes. In addition, Plan I students must take six hours of EH 699 ("Thesis Research") and must complete and successfully defend a masters thesis; Plan II students must take at least three hours of EH 698 ("Directed Studies") and must propose and then pass a "30-books" examination. All students must take at least 15 hours of coursework at the 600-level, including no more than three hours of EH 698 or EH 699. More detailed coursework options are presented on the English Department website.

## Plan I - 31 hours with Thesis

Requirements	Hours
EH 605 Introduction to Graduate Studies in English	1
Select three Literature courses <sup>1</sup>	9
Select any five English graduate courses.	15
EH 699 Thesis Research	6
<b>Total Hours</b>	<b>31</b>

## Plan II - 31 hours with 30-Books Exam

Requirements	Hours
EH 605 Introduction to Graduate Studies in English	1
Select three Literature courses. <sup>1</sup>	9
Select any six English graduate courses.	18
EH 698 Directed Studies Seminar	3
<b>Total Hours</b>	<b>31</b>

<sup>1</sup> **Literature courses:** EH 511, EH 512, EH 513, EH 514, EH 515, EH 516, EH 519, EH 520, EH 521, EH 522, EH 523, EH 524, EH 526, EH 527, EH 543, EH 544, EH 546, EH 547, EH 548, EH 560, EH 561, EH 562, EH 563, EH 564, EH 565, EH 566, EH 567, EH 568, EH 569, EH 570, EH 571, EH 573, EH 574, EH 575, EH 576, EH 578, EH 580, EH 581, EH 582, EH 583, EH 585, EH 586, EH 587, EH 588, EH 589, EH 591, EH 677, EH 690, EH 693

## Foreign Language

<http://www.uab.edu/languages>

### Chair:

The Department of Foreign Languages and Literatures offers multifaceted French and Spanish graduate-level courses which, in tandem with the offerings in the School of Education, address the diverse global and intellectual challenges facing future educators and citizens of the 21<sup>st</sup> century.

Whether at the undergraduate or at the graduate level, our programs are rooted in diversity within and across cultures. We foster the international exchange of knowledge and information between humanities scholars, teachers and other professionals. Our instructional methods are aligned with national standards. The foreign language experience at UAB includes classroom learning, scholarship and research, experiential learning, and extracurricular opportunities. We offer graduate students a unique opportunity to interact with scholars and engage as well with faculty dedicated to serving their profession. Our UAB Foreign Languages and Literatures faculty are engaged in their state and/or national professional teaching associations, serving on boards, organizing professional workshops, working every day to build connections and to enhance foreign language education opportunities in our state and beyond.

At the graduate level the UAB Department of Foreign Languages and Literatures offers courses in culture, civilization, cinema and culture studies, linguistics, and literature.

For more information, visit the Department of Foreign Languages and Literatures web site at <http://www.uab.edu/cas/languages/>.

## Foreign Language Graduate Studies

### M.A. in Education (French/Spanish)

At UAB, the Master of Arts in Education (MAEd) program for the teaching of World Languages (French and Spanish) consists of two tracks—traditional and alternative. The traditional track is for prospective students who completed an undergraduate degree in French or Spanish education, who already hold certification for teaching French or Spanish, and who wish to earn advanced certification. The alternative track is for prospective students who have an undergraduate degree with a 2.75+ GPA from a regionally accredited college, have passed the ETS Core

Academic Skills Exam and the Praxis in French or Spanish, and who wish to earn initial certification for teaching French or Spanish in grades PK-12. Detailed information is provided on the School of Education website:

### <https://www.uab.edu/education/home/ci/world-languages>

Information sessions are offered on a weekly basis. Confirm your attendance by contacting Dr. Susan Spezzini ([spezzini@uab.edu](mailto:spezzini@uab.edu)), Program Director for Secondary and K-12 programs. These information sessions take place as follows:

Alternative Master's Mondays at 5:00 in EB 100

Traditional Master's Thursdays at 4:00 in EB 100

For advising in World Language Education, contact: Dr. Krista Chambless ([kristachambless@uab.edu](mailto:kristachambless@uab.edu)), Advisor for World Language Education

## History

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/history/graduate-program>

Degree Offered:	M.A.
Director:	Andrew W. Keitt, Ph.D.
Phone:	(205) 934-7083
Email:	<a href="mailto:akeitt@uab.edu">akeitt@uab.edu</a>
Website:	<a href="http://www.uab.edu/history">www.uab.edu/history</a>

Students interested in Teaching Certification for Public Schools should contact the School of Education.

## Additional Information

Deadline for Entry Term(s):	Each semester
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments	Additional application for financial aid (fellowship or assistantship) is required by program

For detailed information, contact Dr. Andrew W. Keitt, History Graduate Program Director, Department of History, HHB 360, 1720 2nd Avenue South, Birmingham, Alabama 35294-1152.

Telephone 205-934-7083

E-mail [akeitt@uab.edu](mailto:akeitt@uab.edu)

## Master of Arts in History

The history graduate program provides opportunities for students to learn the techniques of research and broaden their knowledge of historical literature. Students may choose Plan I, which includes writing a thesis based on original research using primary sources, or Plan II, which requires the completion of MA exams in three historical topics. All students are required to enroll in HY 601 Historiography and HY 602 Historical Research and Writing and must take at least 30 hours of their course work in graduate seminars. Each student must take a minimum of 9 hours of course work in U.S. history and 9 hours in non-U.S. history (e.g., European, Asian, Latin America, World).

### Plan I - 36 hours with Thesis

Requirements	Hours
HY 601 Historiography	3
HY 602 Historical Research and Writing	3
<b>US History</b> <sup>1</sup>	
Three (3) seminars at the 600+ level	9
<b>Non-US History</b> <sup>2</sup>	
Three (3) Seminars at the 600+ level	9
Electives <sup>3</sup>	6
HY 699 Thesis Research	6
<b>Total Hours</b>	<b>36</b>

### Plan II - 36 hours (non-thesis option)

Requirements	Hours
HY 601 Historiography	3
HY 602 Historical Research and Writing	3
<b>US History</b> <sup>1</sup>	
Three (3) seminars at the 600+ level	9
<b>Non-US History</b> <sup>2</sup>	
Three (3) seminars at the 600+ level	9
Electives <sup>3</sup>	12
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> **Choose from the following:** HY 612, HY 613, HY 614, HY 621, HY 622, HY 623, HY 631, HY 632, HY 633, HY 634, HY 635, HY 637, HY 638

<sup>2</sup> **Choose from the following:** HY 639, HY 641, HY 650, HY 651, HY 652, HY 653, HY 654, HY 655, HY 656, HY 670, HY 671, HY 672, HY 673, HY 674, HY 675, HY 683, HY 693, HY 694

<sup>3</sup> Up to two (2) equivalent graduate 600+ level courses in another discipline, i.e., English, Art History, Anthropology, or Government

## Mathematics

The Department of Mathematics offers graduate programs of study leading to the M.S. degree in Mathematics or the Ph.D. in Applied Mathematics.

The master's program aims to give students the background to use mathematics in a variety of ways. We train students in mathematical rigor. This provides training in the ability to analyze and solve problems in all walks of life. We also emphasize the development of communication skills of our students (in the classes they take as well as in the classes they teach). Therefore the M.S. program prepares students not only

for a career in secondary or junior college level teaching but provides also a very good preparation for students who go into business, industry, or government. In the past our students have been very successful in obtaining employment. Of course, the M.S. program will also prepare students who wish to pursue a Ph.D. in Mathematics but whose undergraduate education did not provide them with a sufficient background in advanced mathematics to directly enter a Ph.D. program.

The PhD program in Applied Mathematics prepares students interested in an academic career in a college or university as well as students interested in a career in business, industry, or government.

## Mathematics

Prospective students that want to apply for admission have to provide academic records, three letters of recommendation, a CV, an Essay, and scores of the Graduate Record Examination (GRE), General Test. There are more requirements for international students. UAB charges an application fee, for details please see the admissions page of the Graduate School. The Graduate School requires that all applications are submitted online here via the TargetX application portal, required recommendation letters must also be submitted using this application portal.

Degree Offered	M.S.
Director	Dr. Ioulia Karpeshina
Phone	205-934-2154
E-mail	karpeshi@uab.edu
Website	<a href="http://www.uab.edu/cas/mathematics">http://www.uab.edu/cas/mathematics</a>

### Program Information

Mathematics has always been divided into a pure and an applied branch. However, these have never been strictly separated. The M.S. program in mathematics stresses the interconnection between pure mathematics and its diverse applications.

### Areas of Specialization

The student must choose a primary and a secondary specialization from a list of areas determined by the expertise of the faculty. As soon as the student is ready to choose specialization areas, he or she should contact the mathematics graduate program advisor. Courses offered to meet degree requirements must be approved by the mathematics graduate program advisor and the mathematics graduate program director.

Deadline for Entry Term(s)	Each semester
Deadline for All Application Materials to be in the Graduate School Office	Six weeks before term begins
Number of Evaluation Forms Required	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English)

## Additional Information

For detailed information, contact Dr. Ioulia Karpechina, Mathematics Graduate Program Director, UAB Department of Mathematics, CH 483B, 1300 University Boulevard, Birmingham, Alabama 35294-1170.

Telephone 205-934-2154

E-mail [karpeshi@uab.edu](mailto:karpeshi@uab.edu)

Web <http://www.uab.edu/cas/mathematics/>

## Master of Science in Mathematics

The program requires a total of 30 semester hours where each grade must be an A or B and at least 24 hours must be at the 600-level or above. MA 540, MA 541, and courses below MA 520 can not be counted towards degree requirements. All students, whether following Plan I or Plan II, must choose a primary and secondary area of specialization as indicated below.

### Plan I - 30 hours

Requirements	Hours
<b>Primary Area of Specialization (choose 9 hours) and Secondary Area of Specialization (choose 6 hours):</b>	<b>15</b>
<b>Algebra</b>	
MA 534 Algebra I: Linear	
MA 535 Algebra II: Modern	
MA 631 Linear Algebra	
MA 632 Abstract Algebra	
MA 637 Graph Theory and Combinatorics	
MA 660 Numerical Linear Algebra	
<b>Analysis</b>	
MA 544 Vector Analysis	
MA 545 Complex Analysis	
MA 553 Transforms	
MA 554 Intermediate Differential Equations	
MA 555 Partial Differential Equations I	
MA 556 Partial Differential Equations II	
MA 561 Modeling with Partial Differential Equations	
MA 562 Intro to Stochastic Differential Equations	
MA 566 Introduction to Optimization	
MA 642 Calculus of Several Variables	
MA 645 Real Analysis I	
MA 646 Real Analysis II	
MA 648 Complex Analysis	
MA 650 Differential Equations	
MA 655 Partial Differential Equations	
MA 661 Modeling With PDE	
<b>Geometry</b>	
MA 570 Differential Geometry	
MA 572 Geometry I	
MA 573 Geometry II	
MA 675 Differential Geometry	
<b>Numerical Analysis</b>	
MA 560 Scientific Programming	
MA 567 Gas Dynamics	
MA 568 Numerical Analysis I	
MA 569 Numerical Analysis II	
MA 660 Numerical Linear Algebra	

MA 665	Partial Differential Equations: Finite Differential Methods	
MA 668	Numerical Analysis I	
MA 669	Numerical Analysis II	
<b>Probability/Statistics</b>		
MA 562	Intro to Stochastic Differential Equations	
MA 584	Mathematical Finance	
MA 585	Intro to Probability	
MA 586	Mathematical Statistics	
MA 587	Advanced Probability	
MA 588	Advanced Statistics	
MA 687	Advanced Probability	
MA 688	Advanced Statistics	
<b>Topology</b>		
MA 574	Intro to Topology I	
MA 575	Intro to Topology II	
MA 670	Topology I	
MA 671	Topology II	
9 additional hours must be outside the primary area of specialization		9
MA 699	Research for Thesis	6
<b>Total Hours</b>		<b>30</b>

### Plan II - 30 hours

Requirements	Hours
<b>Primary Area of Specialization (choose 12 hours) and Secondary Area of Specialization (choose 6 hours):</b>	<b>18</b>
<b>Algebra</b>	
MA 534 Algebra I: Linear	
MA 535 Algebra II: Modern	
MA 631 Linear Algebra	
MA 632 Abstract Algebra	
MA 637 Graph Theory and Combinatorics	
MA 660 Numerical Linear Algebra	
<b>Analysis</b>	
MA 544 Vector Analysis	
MA 545 Complex Analysis	
MA 553 Transforms	
MA 554 Intermediate Differential Equations	
MA 555 Partial Differential Equations I	
MA 556 Partial Differential Equations II	
MA 561 Modeling with Partial Differential Equations	
MA 562 Intro to Stochastic Differential Equations	
MA 566 Introduction to Optimization	
MA 642 Calculus of Several Variables	
MA 645 Real Analysis I	
MA 646 Real Analysis II	
MA 648 Complex Analysis	
MA 650 Differential Equations	
MA 655 Partial Differential Equations	
MA 661 Modeling With PDE	
<b>Geometry</b>	
MA 570 Differential Geometry	
MA 572 Geometry I	
MA 573 Geometry II	
MA 675 Differential Geometry	
<b>Numerical Analysis</b>	
MA 560	Scientific Programming

MA 567	Gas Dynamics	
MA 568	Numerical Analysis I	
MA 569	Numerical Analysis II	
MA 660	Numerical Linear Algebra	
MA 665	Partial Differential Equations: Finite Differential Methods	
MA 668	Numerical Analysis I	
MA 669	Numerical Analysis II	
Probability/Statistics		
MA 562	Intro to Stochastic Differential Equations	
MA 584	Mathematical Finance	
MA 585	Intro to Probability	
MA 586	Mathematical Statistics	
MA 587	Advanced Probability	
MA 588	Advanced Statistics	
MA 687	Advanced Probability	
MA 688	Advanced Statistics	
Topology		
MA 574	Intro to Topology I	
MA 575	Intro to Topology II	
MA 670	Topology I	
MA 671	Topology II	
9 additional hours must be outside the primary area of specialization		9
3 additional hours can be chosen from the primary, secondary, or any other area		3
<b>Total Hours</b>		<b>30</b>

## Applied Mathematics

Prospective students that want to apply for admission have to provide academic records, three letters of recommendation, a CV, an Essay, and scores of the Graduate Record Examination (GRE), General Test. There are more requirements for international students. UAB charges an application fee, for details please see the admissions page of the Graduate School. The Graduate School requires that all applications are submitted online here via the TargetX application portal, required recommendation letters must also be submitted using this application portal.

## Program Information

Mathematics has always been divided into a pure and an applied branch. However, these have never been strictly separated. The Ph.D. program in applied mathematics stresses the interconnection between pure mathematics and its diverse applications.

## Admission

Only students with a firm foundation in advanced calculus, algebra, and topology are considered for immediate admission to the Ph.D. program. A student lacking this background will be considered for admission to the M.S. program. Upon passing the qualifying examination, a student may transfer to the Ph.D. program. We expect at least a B average in a student's previous work and a score above 158 on each section of the Graduate Record Examination General Test.

## Program of Study

Each student in the Ph.D. program has to take the following steps:

- Passing the Joint Program Exam (JPE), also called the Qualifying Exam. The Joint Program Examinations in Real Analysis and Linear Algebra are given during two periods each year (one in May and one

in September). During each period a student may take one or both of the exams but subject to the following restrictions: (1) either exam may be attempted at most twice and (2) a student may participate in exams during no more than three periods.

- Completing 54 semester hours of graduate courses. The grade of each course has to be at least a B. The student's supervisory committee and the Joint Program Committee must approve the selection of courses. At least 18 hours must be in a major area of concentration, selected so that the student will be prepared to conduct research in an area of applied mathematics, while at least 12 hours have to be in a minor area of study, which is a subject outside mathematics. No courses counted towards an MS degree can be used. There are additional requirements by the UAB Graduate School, see "Minimum Course Requirements" in the Graduate Catalog.
- Passing a language or tool of research exam.
- Passing the Comprehensive Exam, which consists of a written part and an oral part.
- Preparing a dissertation, which must be a genuine contribution to mathematics.
- Passing the Final Examination (thesis defense).

## Additional Information

For detailed information, contact Dr. Ioulia Karpechina, Mathematics Graduate Program Director, UAB Department of Mathematics, CH 483B, 1300 University Boulevard, Birmingham, Alabama 35294-1170.

## Physics

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/physics/graduate>

Degree Offered:	Ph.D., M.S.
Director:	Mary Ellen Zvanut, Ph.D.
Phone:	(205) 934-6661
E-mail:	mezvanut@uab.edu
Website:	<a href="http://www.uab.edu/cas/physics/graduate">http://www.uab.edu/cas/physics/graduate</a>

## Program Information

Students in the M.S. and Ph.D. programs may specialize in any of the areas of interest to the faculty, including experimental physics and theoretical and computational physics.

## Admission

Admission into the physics graduate program is by recommendation of the graduate admission committee of the Department of Physics. The committee takes into consideration GRE General Test scores, prior academic performance, personal statement, prior research experiences, and the letters of evaluation, usually from former instructors and research supervisors.

## Beginning the Program

All students must take a placement examination on basic physics concepts before registering for any courses. Upon arrival at UAB, international students may be required to take English as a Second

Language course or Scientific Communication courses at UAB during their first year of study.

Web <http://www.uab.edu/cas/physics/graduate>

## M.S. Program

### Plan I

The student must successfully complete at least 30 semester hours of coursework, including at least four core courses selected from PH 635, PH 650, PH 660, and PH 671 and 6 semester hours of Thesis Research PH 699. Equivalent directed reading course or courses may be substituted if approved by the graduate faculty. The student must also write and complete a successful oral defense of a thesis under the direction of a graduate faculty member. Additional coursework should be selected with the advice of the student's graduate study committee to meet the particular needs of the student.

An interdisciplinary track for an M.S. degree Plan I is also offered. Students admitted to this track will typically hold a bachelor's degree in a science area other than physics, such as astronomy, biology, chemistry, geology, mathematics, or psychology, or an engineering degree, including optics and materials science. Thesis research will be in an interdisciplinary in areas such as mathematical physics, optics, materials science, or engineering physics. Students awarded an M.S. degree within this track will be prepared for an Assistant Research Physicist position, including qualification for co authorship, and would typically work under the direction of a doctoral-level person. The acquired skill would be highly marketable, as individuals trained in multidisciplinary areas for basic and applied research are increasingly in demand in industry, government laboratories, and other research institutions.

If this option is approved, the student must complete a total of 30 credit hours which consist of the following:

1. Classical Mechanics, PH 561 or Statistical Mechanics PH532; Electromagnetic Theory, PH 545 - PH 546; and Quantum Mechanics, PH 550
2. 6 hours of Physics graduate level core classes most closely related to your research focus area (PH 635, PH 650, PH 671, PH 660)
3. a minimum of 6 hours of graduate-level courses offered by other departments
4. 6 semester hours of Thesis Research PH 699

### Plan II

With approval of the physics graduate program director, a nonthesis option (Plan II) is available for all tracks in the Masters program. In this case, the graduate study committee requires the same total credit hours as for Plan I, but does not require 6 semester hours of Thesis Research (PH 699). The committee gives the student an M.S.-degree exit examination upon successful completion of the coursework.

## Ph.D. Program

All students are required to take the following core courses:

- PH 760 Methods of Mathematical Physics I (3 CH, 1 semester)
- PH 715 Advanced Statistical Mechanics (3 CH, 1 semester)
- PH 750 Classical Electrodynamics I (3 CH, 1 semester)

PH 771 Quantum Mechanics I (3 CH, 1 semester)

PH 793-PH 794 Scientific Communications I, II 2 credit hours

In addition, GRD717, Responsible Conduct in Research, must be taken prior to admission to candidacy. Students are encouraged to take the course during their first summer semester in the PhD program.

A qualifying examination is given to test a student's competency in fundamental areas of Physics. This examination is divided into three sections: statistical mechanics, electromagnetic theory, and quantum physics. Each exam must be taken at the first offering following the completion of the related core course, PH 715, 750, and 771. PH 760 should be passed before any of the qualifying exams. The examination may not be taken more than twice. Scientific communications, PH 793 and PH 794, must be taken at the first offering following the completion of the qualifying examinations.

Following satisfactory completion of the core qualifying examinations and consultation with individual faculty members, the student selects a specific area for dissertation research under the supervision of an appropriate graduate faculty member. The student's Graduate Study Committee, chaired by the major advisor, will outline a program of study including graduate courses and appropriate tools of research, such as computer and/or foreign language competency. Also, the Graduate Study Committee will administer an oral selected topic examination to test the student's knowledge in the area of research. The student must pass this oral examination in no more than two attempts. Then, with direction from the major advisor, the student should focus on formulating and writing a formal research proposal that must be presented and defended before the Graduate Study Committee; this should lead to a recommendation from the committee for admission to candidacy. Dissertation research culminates in the successful oral defense of the dissertation.

The Physics Graduate program offers two tracks, the Physics Track and the Applied Physics Track.

### Physics Track:

For students entering with a B.S. degree, the program requires a total of 72 credit hours distributed as follows:

- Fourteen semester hours of the core courses listed above
- PH 752, Light-Matter Interactions (3 credit hours)
- GRD 717 (3 credit hours)
- Three credit hours of elective courses approved by dissertation committee and/or graduate program director
- Participation in Colloquium (1 credit hour/semester)
- Directed and Dissertation Research (at least 2 semesters of dissertation research are required to graduate)

For information about transferring credits from a Masters of Science program, please contact the department ([mezvanut@uab.edu](mailto:mezvanut@uab.edu)).

### Applied Physics Track:

For students entering with a B.S. degree, the program requires a total of 72 credit hours distributed as follows:

- Fourteen semester hours of the core courses listed above
- PH 747 Applied Physics Internship (3 credit hours)
- GRD 717 (3 credit hours)
- Participation in Colloquium (1 credit hour/semester)

- Three credit hours of elective courses approved by dissertation committee and/or graduate program director
- Directed and Dissertation Research (at least 2 semesters of dissertation research are required to graduate)

For information about transferring credits from a Masters of Science program, please contact the department (mezvanut@uab.edu)

The following is a partial list of elective courses. Others may be suggested by the student or advisor. All electives must be approved by the graduate advisor and/or PhD committee.

## Elective Courses for the Applied Physics Track

- PHY 792: Cell Interactions with Biomaterials. 3 credit hours
- PH 753-754: Advanced Solid State Physics. 6 credit hours
- MSE 743-744: Materials Characterization I and II. 6 credit hours
- PH 732-733: Growth and Characterization of Thin Films I, II. 6 credit hours
- BME 590: Tissue Engineering. 3 credit hours
- PH 587: Nanoscale Science and Applications. 3 credit hours
- PH 575-576: Introduction to Biophysics I, II. 6 credit hours
- PH 581-582: Laser Physics I, II. 6 credit hours
- PH 585: Laser Spectroscopy. 3 credit hours
- PH 525-526: Applications of Contemporary Optics I, II. 6 credit hours

The following doctoral fellowships are available to the graduate students enrolled in the PhD program in physics at UAB.

## 2018 Blazer Graduate Research Fellowship in Physics

*Applicants to the PhD program in Physics, who have demonstrated exceptional promise in research and scholarship, will be considered for the UAB Blazer Fellowship. Fellowship recipients will receive a stipend of \$26,000 + tuition and health insurance. Furthermore, they will be able to engage in research at the beginning of their first year with no teaching duties. It is expected that the Blazer Fellow will be able to commence PhD research and choose a research mentor by the end of their first year.*

For information about the 2018 application, contact the Physics Graduate Program director at mezvanut@uab.edu.

## Department of Education – Graduate Assistantship in the Areas of National Need (GAANN)

The U.S. Department of Education has funded the University of Alabama at Birmingham (UAB) Department of Physics for three years, 2015-18, to support the department's doctoral students in their academic pursuits. The funding released through the fiscal year 2015 Graduate Assistance in Areas of National Need (GAANN) program, will support four physics Ph.D. students at a stipend level up to \$32,000 depending on the financial need of the applicant as assessed by the UAB Office of Financial Aid. The GAANN program also makes an annual institutional payment of \$14,724 per student to cover educational expenses. The project title for the UAB physics program is "Doctoral Fellowships in Nanoscale Materials and Computational Physics at the University of Alabama at Birmingham". This distinctive program will lead to a Ph.D.

degree in physics involving individualized academic course work, closely-supervised research experiences, optional industrial internships, continuous development of pedagogical and communication skills, and comprehensive supervision and evaluation of teaching performance.

## NASA-Alabama Space Grant Consortium Fellowships

Awards are up to \$37,000 (\$24K in student stipend, up to \$12K for tuition/insurance and \$1K for student travel allowance) and are made initially for one 12-month period and may be renewed annually for a maximum total award of 36 months (3 years) support. Must be a U.S. citizen, enrolled full-time in good academic standing with a GPA of at least 3.0 on a 4.0 scale at an Alabama Space Grant member university pursuing any space-related field of graduate study (Masters or Doctoral level). Must conduct a specific faculty-mentored research project that has a NASA or aerospace relevance. Cannot receive funds from any source for work other than that defined by the student's approved proposed research and plan of study for which the award is made (supplements to the student's award may be made by the home university using funds from any source, provided the amount and source are disclosed in advance - see information booklet for more details). Awardees must also complete an extramural NASA experience sometime during the fellowship year. The details are to be worked out with the faculty advisor and NASA lab facility where the student plans to participate in a research activity. *It is advisable that a NASA contact be found prior to submission of the fellowship proposal.* Fellows are also expected to be involved in ASGC outreach activities and submit a final report at the end of the award period.

The online Graduate Fellowship Application is available through the department website.

## Graduate Research Scholars Program

Graduate students working toward their PhD may compete for a research fellowship based on the quality of their present research and promise of future success through the the Graduate Research Scholars Program (GRSP). The GRSP is designed to strengthen and enhance the research capacity of member institutions of the Alabama Experimental Program to Stimulate Competitive Research (EPSCoR). Students submit a complete research proposal package to the UAB EPSCoR Coordinator in Spring each year, and successful recipients are announced in early Summer.

For up-to-date information about additional fellowships, please contact the Physics Graduate Program Director, mezvanut@uab.edu

## Additional Information

Deadline for Entry Term(s):	Each Fall semester
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments:	GRE General Test is required; in addition, subject test is recommended

# Political Science and Public Administration

**Interim Chair:** Angela Lewis, Ph.D.

The Department of Government offers a graduate program of study leading to the Master of Public Administration (MPA) degree.

UAB's nationally ranked Master of Public Administration (MPA) program is NASPAA (National Association of Schools of Public Affairs and Administration) accredited. Our MPA program prepares students for successful careers in public service where they can serve the greater good. We have graduates locally and across the country who have become successful leaders and managers in local, state, and federal government positions, and in nonprofit organizations.

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/government/graduate-program>

Degree Offered:	MPA
Director:	Akhlaque Haque, Ph.D.
Phone:	(205) 934-4653
E-mail:	mpa@uab.edu
Website:	<a href="http://www.uab.edu/mpa">http://www.uab.edu/mpa</a>

## MPA Program Mission

In line with the mission of the University, the MPA program is committed to excellence in graduate education through teaching, research, service, and practice. The program focuses on building the next generation of global leaders and responsible decision makers by enhancing their intellectual and social capacities through knowledge and skills provided within the framework of public service values embedded in the MPA curriculum. The Master of Public Administration Program prepares individuals for positions of leadership in the public and nonprofit sectors. It is a professional graduate degree for both pre-career students and in-service administrators. The program is designed to develop the insights and skills needed to plan and formulate policy, and to organize, manage, and implement programs and operations. The MPA program is accredited by the Network of Schools of Public Policy, Affairs, and Administration (**NASPAA**). Its Board of Advisors consists of internal and external stakeholders comprised of community members, alumni and students.

The MPA curriculum is designed to ensure that students achieve competency in five domains:

- To lead and manage in public governance.
- To participate in and contribute to the policy process.
- To analyze, synthesize, think critically, solve problems and make decisions.
- To articulate and apply a public service perspective.
- To communicate and interact productively with a diverse and changing workforce and citizenry.

## Degree Requirements

Students in the MPA program must complete a total of **42 semester hours** or the equivalent, with an overall grade average of at least B. . Students without professional public service experience are required to do a three hour internship in addition to required coursework. Previous

graduate work at UAB or another NASPAA accredited MPA program may be credited toward the degree if it is directly applicable. Students may select the thesis option or the non-thesis option.

## Joint Degree and Certificate Programs

- For students who are interested in both public administration and the delivery of public health services, a coordinated **MPA/MPH dual degree** is offered.
- For students who are interested in both public administration and the law, a coordinated **MPA/J.D dual degree** is offered.
- For students interested in criminal justice and public administration a coordinated **MPA/MSJ dual degree** is offered.
- For non-traditional students interested in managing nonprofit organizations the program offers a **Graduate Certificate in Nonprofit Management**. Students seeking admission into the Nonprofit Certificate only should apply as non-degree seeking through Graduate School by visiting <http://www.uab.edu/graduate/images/acrobat/forms/certificate-app.pdf>. Contact the MPA program coordinator ([ccmayo@uab.edu](mailto:ccmayo@uab.edu)) for additional information regarding the Certificates.

## Admission Requirements

Because of its multidisciplinary nature, persons from all undergraduate majors are considered for admission to the program. Applicants must take the Graduate Record Examination (GRE) and submit scores. The following are eligible for a GRE Waiver:

Students with a graduate degree from an accredited college or university.

Students with at least 5 years professional, full-time, progressively responsible mid-to-senior level management experience. The Statement of Interest and resume should provide clear evidence to for this waiver.

The LSAT may be substituted for the GRE only by JD/MPA applicants. Standardized GMAT score may be substituted at the discretion of the Program Director.

\*\* IMPORTANT Applicants who are applying for a waiver or substitution of other test scores must contact the MPA Director for the official approval. The applicant should submit a formal request accompanied by a resume to the MPA Program Director via postal mail or email attachment.

Two letters of reference are also required. Application for admission should be made online by visiting the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and clicking the 'Apply Now' button. Admissions will be made fall and spring semester. Deadlines for submitting application for admission are listed on the UAB Graduate School website.

Deadline for Entry Term(s):	Each semester
Deadline for All Application Materials to be in the Graduate School Office:	Fall: July 1 Spring: November 1
Number of Evaluation Forms Required:	Two
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.). GRE waived for senior professional. See guidelines above.

## Financial Aid

The Department of Government has a limited number of graduate assistantships awarded on a competitive basis, which can be awarded during any semester as vacancies occur. The Department has two scholarships which are awarded on a competitive basis each spring. Other financial resources are available through the Office of Student Financial Aid.

## Internships and Placement

Students may apply for an internship placement at any time. A few paid opportunities do arise, although the majority of internships are non-paid. Typical placements are in city and county government, planning departments, public health agencies, social service agencies, state government agencies, and various nonprofit organizations. The Department has placed several students in the prestigious Presidential Management Internship Program, which provides an excellent opportunity for eventual employment in the federal government. Students are also encouraged to use the services of the UAB Student Development Office in the University Center for career planning and placement. The faculty in the program also assists students in job placement. Please [click here](#) to see what some of our graduates are doing now.

## Joint Degree Programs

### Coordinated MPA/MPH Program

The MPA/MPH is designed to train individuals for administrative positions in public health and related health organizations. The Master of Public Administration degree prepares students for careers as administrators in public and nonprofit agencies, and the Master of Public Health provides a background in public health principles and programs. Students must apply and be accepted into both programs, meeting each program's entry requirements. Students are required to complete a total of 60-64 semester hours for the coordinated degree. Core requirements of 21 hours from the MPA program and 39-43 hours from the MPH program are required. Full-time students should be able to complete all degree requirements within three years.

### Coordinated MPA/JD Program

The MPA program at UAB and the Cumberland School of Law at Samford University offer a coordinated MPA/JD program. The offering of this dual degree reflects recognition of the complex interrelationship between the legal system, public policy analysis, and public management. It will be particularly applicable to those pursuing careers in government and/or public interest law. Students must apply and be admitted to the MPA and JD programs separately. The requirements for each degree must be met. Close communication with both programs is required. Depending on prior experience, a field placement may be required.

### Coordinated MPA/MSJ Program

The MPA/MSJ is targeted toward individuals who wish to gain competencies in public management and the theory/practice of criminal justice. Students must apply and be accepted into both programs, meeting each program's entry requirements. Students are required to complete a total of 60 semester hours for the coordinated degree. Core requirements of 24 hours from the MPA program and 18 hours from the MSJ program; an additional 12 hours of electives, 3 hours of internship and a 3 hour capstone course are required. Full-time students should be able to complete all degree requirements within three years.

## MPA Alumni Association

An active alumni association welcomes graduates of the program into membership. The association makes both advisory and financial contributions to the program and seeks to elevate the level of professionalism in public administration through a variety of projects and services. One of the best qualities of our alumni is their willingness to remain in contact with the MPA program. Our students benefit from talks and events in which our alumni engage, shared their experiences, and mentor the next generation.

## Contact Information

For additional information refer to the web site of the UAB MPA program: [www.uab.edu/mpa](http://www.uab.edu/mpa). Inquiries concerning program admission or other questions about the program should be directed to the MPA Program Coordinator.

MPA Coordinator  
Graduate Studies in Public Administration  
Department of Government  
University of Alabama at Birmingham  
HHB 415, 1530 3rd Avenue South  
Birmingham, Alabama 35294-1152  
Telephone (205) 975-3413 or (205) 934-2339  
Email: [mpa@uab.edu](mailto:mpa@uab.edu)

## Master of Public Administration

A total of 39 hours are required to complete the MPA program. For pre-career students an additional 3 credit hours of internship (20 hours/week) is also required. For a total of 42 hours, a full time student, taking 3 courses per semester, plus one additional course over the summer, should be able to complete the program within two years. All courses are offered in the evenings to accommodate working professionals.

## Plan I: thesis

Requirements	Hours	
<b>Core</b>		
MPA 600	Administrative Ethics	3
MPA 601	The Public Policymaking Process	3
MPA 602	Scope of Public Administration	3
MPA 603	Public & Nonprofit Budgeting	3
MPA 604	Human Resources Management	3
MPA 605	Information Management for Government	3
MPA 606	Foundations of PA Research	3
MPA 607	Quantitative Methods for PA	3
MPA 698	Internship in Public Administration <sup>1</sup>	3
<b>Admission to Candidacy</b>		
MPA 696	Independent Study in Public Administration <sup>1</sup>	3
MPA 699	Thesis Research	6
<b>Electives</b>		6
MPA 662	State and Local Government Administration	
MPA 664	Women in Public Administration	
MPA 665	Crisis Management	
MPA 666	City County Management	
MPA 667	Administrative Law	
MPA 668	Intergovernmental Relations	
MPA 671	Marketing and Fundraising	
MPA 672	Nonprofit Management	

MPA 674	GIS for Managers
MPA 675	Equity and Diversity in Public Policy
MPA 678	Strategic Planning
MPA 681	Local Government Planning
MPA 682	Economic Development
MPA 684	Grants Management
MPA 689	Program Evaluation
MPA 683	Public Managerial Economics

**Total Hours** 42

<sup>1</sup> Students taking the thesis option (Plan I) must take three hours of Independent Study under the guidance of the thesis chair prior to taking the six thesis hours (total 9 hours for thesis).

## Plan II: non-thesis

Requirements	Hours	
<b>Core</b>		
MPA 600	Administrative Ethics	3
MPA 601	The Public Policymaking Process	3
MPA 602	Scope of Public Administration	3
MPA 603	Public & Nonprofit Budgeting	3
MPA 604	Human Resources Management	3
MPA 605	Information Management for Government	3
MPA 606	Foundations of PA Research	3
MPA 607	Quantitative Methods for PA	3
MPA 698	Internship in Public Administration <sup>1</sup>	3
<b>Portfolio</b>		
MPA 697	Graduate Learning Portfolio <sup>1</sup>	3
<b>Electives</b>		12
MPA 662	State and Local Government Administration	
MPA 664	Women in Public Administration	
MPA 665	Crisis Management	
MPA 666	City County Management	
MPA 667	Administrative Law	
MPA 668	Intergovernmental Relations	
MPA 671	Marketing and Fundraising	
MPA 672	Nonprofit Management	
MPA 674	GIS for Managers	
MPA 675	Equity and Diversity in Public Policy	
MPA 678	Strategic Planning	
MPA 681	Local Government Planning	
MPA 682	Economic Development	
MPA 684	Grants Management	
MPA 689	Program Evaluation	
MPA 683	Public Managerial Economics	
<b>Total Hours</b>		42

<sup>1</sup> During the last semester of study, students opting for the non-thesis (Plan II) must register for MPA 697, Graduate Learning Portfolio (GLP) and complete a comprehensive portfolio based on the course work, mission/vision, and career plans.

## Psychology

### Graduate Programs

The Department of Psychology offers three doctoral programs: Behavioral Neuroscience, Lifespan Developmental Psychology, and Medical/Clinical Psychology. A terminal master's degree is not offered.

### Behavioral Neuroscience

The Behavioral Neuroscience Doctoral Program is designed to prepare students for independent research and teaching in the neurobiology of behavior. Research training is provided by faculty in the Department of Psychology and in the UAB Schools of Medicine and Optometry, who share an interest in the biological basis of behavior. The course of study includes a core curriculum in neuroscience and recognizes the interdisciplinary nature of this field. Students obtain strong backgrounds in behavioral science and in neuroscience and gain expertise in the content and techniques of selected areas of neuroscience as they apply to the study of behavior.

Faculty laboratories are equipped for research in behavior, neuroanatomy, neurochemistry, neuroimaging, neuropharmacology, neurophysiology, and molecular biology. The research interests of the faculty include neuroanatomy and neurophysiology of the visual system; interactions between the central nervous system and the periphery in the control of feeding and energy balance; neural underpinnings of obesity and plasticity in participants in a weight loss program; autism; emotional substrates of conditioned fear; neurophysiology and neuropharmacology of pain.

### Lifespan Developmental Psychology

The Lifespan Developmental Psychology Doctoral Program trains scientists to conduct research to discover and apply basic principles of developmental psychology in an interdisciplinary context and to apply those principles to a variety of problems. Graduates are capable of taking positions in institutions of higher learning, medical schools, research institutions, government agencies, and other research and teaching positions. Research training is provided by the faculty of the Department of Psychology and may occur in collaboration with faculty at the Civitan International Research Center, the Center for Aging, the Center for Applied Gerontology, the Department of Pediatrics, The School of Public Health, and other centers and departments.

The research programs of faculty with interests in lifespan developmental psychology include a wide variety of topics from infancy to the elderly. Much of this research is funded by federal research grants. Research subareas include: developmental disabilities (with special interests in Autism Spectrum Disorders, prenatal development and exposure to toxic substances, early intervention, adolescent psychosocial development and mental health, and how family members adapt to the problems of a child with a disability); adolescence (with special interest in longitudinal studies, interactions between health and development, alcohol and drug use, predictors of depression and suicide, family and peer relations, those with special health care or education needs); and aging (with special interest in visual-perceptual problems of older adults with low vision, memory skills training with elderly populations, the psychological aspects of chronic illness in the elderly, chronically ill individuals, care giving in families of elderly persons, human factor issues in vision and aging).

Developmental Psychology students must complete a master's thesis. Admission to candidacy for the doctoral degree is based on satisfactory

completion of coursework and completion of an area review in the form of a *Psychological Bulletin* or *Psychological Review* article. The doctoral degree is awarded upon successful defense of the dissertation.

It is also possible to enroll in the Gerontology Certification Program concurrently with enrollment in the Lifespan Developmental Psychology Program. More information about this program may be found at: <http://www.aging.uab.edu/SubChannel/Training/pdf/gep-student-policy-2006.pdf>

## Medical/Clinical Psychology

The Medical / Clinical Psychology Doctoral Program prepares students to become leaders in health promotion, disease prevention, risk reduction, and symptom assessment and amelioration in interdisciplinary and medical settings. Research, course work and clinical training emphasize behavioral and psychological factors associated with medical illness and injury as well as neurobehavioral and psychological disorders across the lifespan. The Medical/Clinical Psychology Program is accredited to offer training in clinical psychology by the American Psychological Association.

The Department of Psychology (College of Arts and Sciences) and the UAB School of Medicine co-sponsor the Medical/Clinical Psychology Doctoral Program. Program faculty are distributed across multiple academic departments and divisions, including but not limited to Psychology, Psychiatry, Pediatrics, Neurology, Preventive Medicine, Clinical Immunology and Rheumatology, and Physical Medicine and Rehabilitation. Clinical psychologists and researchers in UAB-affiliated clinics and research centers, the Children's of Alabama Hospital, the Birmingham VA Medical Center and throughout the community also play active roles in teaching as well as research mentoring and clinical supervision.

Research programs in which faculty and students are currently involved include: accidental injury and child abuse risk prevention; adolescence, aging, autism spectrum and other neurodevelopmental disorders and developmental disabilities; chronic pain; coping with medical illness, dementia, eating disorders and obesity; epilepsy; minority health issues and health disparities; neural plasticity; neuroimaging; pediatric oncology; response to stress and psychological trauma; rehabilitation following traumatic brain and spinal cord injury, stroke and neurobehavioral disease; sleep and feeding problems of childhood; and substance abuse.

With the approval of both programs it is possible to complete the Master of Science in Public Health program and the Medical/Clinical Psychology program concurrently.

## Application

The deadline for receipt of complete applications for admission is: **November 30 for all three programs.** Applications are invited both from students with bachelor's degrees and from those who may have already completed some graduate study. The GRE General Test is required. For the most up-to-date description of application requirements please see the websites for the individual programs, given below.

## Admission

Admission to the Psychology graduate programs is highly selective. Applications are evaluated as a whole without minimum criteria on single scores or other indicators. Transcripts are evaluated for the content and difficulty of courses completed as well as grades received. All programs follow an affirmative action/equal opportunity process to ensure that all applicants are evaluated fairly and on the basis of their individual merit.

Further information regarding admission to the three programs appears below:

## Behavioral Neuroscience

Because of the interdisciplinary nature of this program, students with diverse backgrounds in psychology, biology, and physical science are encouraged to apply. All students are expected to have undergraduate training in psychology, biology, physics, chemistry, and mathematics. Students not trained in one or more of these areas may be required to make up deficits after enrollment.

## Lifespan Developmental Psychology

Admission to the Lifespan Developmental Psychology program requires a solid background in psychology as well as some courses in the life sciences. Research experience is essential. Excellent grades in statistics and mathematics are also valued.

## Medical/Clinical Psychology

The Medical/Clinical Psychology program requires a strong background in psychology (including statistics and research design; cognitive, biological, and affective bases of behavior; abnormal psychology and personality). Advanced course work in mathematics and natural science (especially anatomy and physiology) is also recommended. Relevant research experience is considered an important indication of the applicant's motivation and commitment to program goals, and prior experience with clinical populations is also advantageous. The relevance of the applicant's goals and interests to ongoing activities of program faculty is weighed heavily in admissions decisions. Please visit the program website for further information on admissions (including characteristics of admitted students) and program outcomes.

## Advisement

Behavioral Neuroscience students are advised by their Program Director in consultation with a program steering committee and by their research preceptors until the dissertation committee is appointed, usually early in the third year of study.

Students accepted into the Lifespan Developmental Psychology specialization are matched with a faculty member who agrees to mentor that student. Therefore, applicants will need to identify faculty members with whom they share research interest and would like to study.

Medical/Clinical Psychology students are advised by their research mentor, an advisory committee, and the program director.

## Financial Aid

All students admitted to the Behavioral Neuroscience, Lifespan Developmental Psychology, and Medical/Clinical Psychology programs may expect to receive financial aid for at least 5 years. Sources of support include fellowships, traineeships, assistantships, and tuition scholarships.

## Additional Information

For detailed information on these programs, please visit the websites listed below. Questions may be directed to the appropriate Program Director or to the Graduate Programs Manager, Ms. Terri Roberson, at 205-934-8723 or [trobe@uab.edu](mailto:trobe@uab.edu).

### *Behavioral Neuroscience*

Website: <http://www.uab.edu/cas/psychology/graduate/behavioral-neuroscience>

Dr. David C. Knight, Director  
Email [knightdc@uab.edu](mailto:knightdc@uab.edu)

### **Lifespan Developmental Psychology**

Website: <http://www.uab.edu/cas/psychology/graduate/lifespan-developmental>

Dr. Fred J. Biasini, Director  
Email [fbiasini@uab.edu](mailto:fbiasini@uab.edu)

### **Medical/Clinical Psychology**

Website: <http://www.uab.edu/cas/psychology/graduate/medical-clinical-psychology>

Dr. Edwin W. Cook III, Director  
Email: [ecook@uab.edu](mailto:ecook@uab.edu)

## **Behavioral Neuroscience**

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/psychology/graduate-programs/behavioral-neuroscience>

The curriculum in Behavioral Neuroscience provides a student with advanced training that is broadly based in neuroscience. All students have a plan of coursework that includes Overview of Behavioral Neuroscience (PY 753), a two-semester statistics sequence (PY 716-PY 717), and an ongoing seminar in current research (PY 756). Advanced academic coursework is determined by the student and mentor. The student initially rotates among faculty and laboratories during the first year to obtain breadth in points of view and experimental techniques. Student then chooses a mentor with whom they normally complete the remainder of their research training. Before admission to candidacy, each student must fulfill the pre-dissertation research requirement and pass the qualifying examination. Following acceptance of a proposal for dissertation research, the student is admitted to candidacy. The Ph.D. degree is awarded upon successful defense of the dissertation.

## **Lifespan Developmental Psychology**

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/psychology/graduate-programs/lifespan-developmental>

Each student in the Lifespan Developmental Psychology specialization is encouraged to develop a systematic line of research that complements that of his or her advisor. With intense exposure to an important aspect of developmental research, the student acquires skills that can be generalized to a variety of problems. Students are required to complete a core curriculum which includes 21 hours of developmental psychology classes, 15 hours of research design and statistics, 9 hours of general psychology and related discipline classes; 6 hours of teaching practicum and teaching; and at least 48 credit hours of research.

Lifespan Developmental Psychology students must complete a master's thesis. Admission to candidacy for the doctoral degree is based on satisfactory completion of coursework and completion of an area review in the form of a *Psychological Bulletin* or *Psychological Review*

article. The doctoral degree is awarded upon successful defense of the dissertation.

## **Ph.D. Developmental Psychology**

Requirements	Hours
<b>Developmental Psychology</b>	21
<b>Required Courses</b>	
PY 708 Developmental Psychology	
PY 729 Seminar in Adolescent Development	
PY 785 Psychology of Aging	
PY 710 Seminar in Contemporary Issues in Developmental Psychology	
<b>Elective Options in Developmental Psychology</b>	
Select three courses from:	
PY 711 Seminar in Cognitive Development	
PY 712 Seminar in Social Development	
PY 741 Child and Adolescent Psychopathology and Treatment	
PY 764 Cognitive Assessment: Child and Adult	
PY 783 Developmental Disabilities	
GER 540 Biology of Aging	
GER 665 Geriatric Rehabilitation for the Health Profession	
or SOC 655 Minority Aging	
GER 759 Social Gerontology	
or SOC 759 Social Gerontology	
GRD 602 The Health Care of Older Adults	
GRD 604 Health Literacy and Aging	
<b>Research Design &amp; Statistics</b>	15
<b>Required Courses</b>	
PY 716 Introduction to Statistics and Measurement	
PY 716L Lab for Introduction to Statistics and Measurement	
PY 717 Applied Statistical Methods	
PY 717L Lab for Applied Statistical Methods	
PY 719 Multivariate Statistical Methods	
PY 719L Lab for Multivariate Statistical Methods	
<b>Electives in Research Design &amp; Statistics</b>	
Select one course from:	
PY 718 Advanced Research Design	
PY 727 Longitudinal Data Analysis Laboratory	
or BST 795 Advanced Special Topics	
<b>General Psychology &amp; Related Disciplines</b>	9
<b>Required course</b>	
PY 753 Foundations of Behavioral Neuroscience	
<b>Elective Courses in General Psychology</b>	
Select two courses from:	
PY 702 History and Systems of Psychology	
PY 703 Theories of Personality	
PY 704 Social Psychology	
PY 706 Sensory and Perceptual Processes	
PY 707 Brain and Cognition	
PY 720 Human Neuropsychology	
PY 731 Health Psychology	
PY 740 Adult Personality and Psychopathology	
PY 742 Sport Psychology	
PY 743 Methods in Neuroimaging	
PY 791 Special Topics in Psychology	
HCO 611 Child Health and Development:Womb to Young to Adulthood	

<b>Teaching</b>	6
PY 796 Practicum in the Teaching of Psychology <sup>1</sup>	
<b>Research</b>	30
PY 698 Premaster's Degree Graduate Research	
PY 699 Master's Level Thesis Research	
PY 789 Social/Ethnic Issues in Therapy	
PY 799 Doctoral Dissertation Research	
<b>Total Hours</b>	<b>81</b>

<sup>1</sup> See Teaching Practicum for restrictions

## Medical/Clinical Psychology

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page: <https://www.uab.edu/cas/psychology/graduate-programs/medical-clinical-psychology>

The Medical/Clinical Psychology specialization places strong emphasis on integration of biological and behavioral sciences. Thus, the research and clinical training that the program provides assumes an undergraduate background in both psychology and life science. The program engages students in continued pursuit of knowledge and skill fundamental to research and clinical practice. In addition, students focus their research and a clinical training in one or more of the several areas of clinical and health psychology that the program emphasizes, and pursue advanced scientific and applied coursework, clinical practica, and directed research activities that culminate in the doctoral dissertation.

Course requirements for the Medical/Clinical Psychology specialization include:

1. General Psychology and Neuroscience – cognitive, biological, social, emotional and developmental bases of behavior, as well as the history of the discipline
2. Statistics and Research Design – statistical methods, research design, and the responsible conduct of research. The statistics courses have associated computer labs.
3. Foundations of Clinical and Health Psychology – personality, psychopathology, an overview of psychotherapeutic methods, health psychology and the ethics of professional practice
4. Psychological Assessment and Intervention – interviewing; behavioral, cognitive and personality assessment; and an introduction to cognitive-behavior therapy.

Additional courses and/or seminars may be taken as electives and may be required depending on the student's area(s) of emphasis.

Students in Medical/Clinical Psychology are actively engaged in research throughout the time that they are enrolled in the program and typically complete a master's thesis project during their second or third year. Clinical practicum experiences begin in the summer of the first year, and in their final year students complete an APA-accredited clinical psychology internship, typically in a medical facility. The doctoral degree is awarded upon successful defense of the dissertation and internship.

## Master's Degree

<b>Requirements</b>	<b>Hours</b>
<b>Graduate Coursework</b> <sup>1,2</sup>	24
PY 701 Professional Issues and Ethics in Psychology	
PY 716 Introduction to Statistics and Measurement	

PY 716L Lab for Introduction to Statistics and Measurement	
PY 717 Applied Statistical Methods	
PY 717L Lab for Applied Statistical Methods	
PY 719 Multivariate Statistical Methods	
PY 719L Lab for Multivariate Statistical Methods	
PY 740 Adult Personality and Psychopathology	
PY 764 Cognitive Assessment: Child and Adult	
PY 765 Personality Assessment	
PY 770 Survey of Psychotherapeutic Methods	
<b>Thesis Research</b>	6
PY 699 Master's Level Thesis Research	
<b>Total Hours</b>	<b>30</b>

- <sup>1</sup> The Master's Degree is not awarded outside of the Ph.D. program.
- <sup>2</sup> The following courses are required of all students. Individual course requirement may be waived based on evaluation of coursework completed prior to matriculation into the program. If a course requirement is waived, then the credit hours must be replaced by courses required by the program at the doctoral level or by other approved electives. No course may be used to satisfy a requirement for another degree and for the master's degree in the Medical/Clinical Psychology Graduate Program  
The program limits course waivers to half the program's required credit hours of "regular" coursework, which would include, essentially, all 2- and 3-credit hour courses and their associated labs. It specifically excludes PY 699, 778, 779, 790, 797 and 799. This limitation applies across master's and doctoral requirements. In theory it would be possible for a student to waive up to approximately eight classes. However, there are numerous classes that are rarely waived and so in practice it is rare for a student to be approved to waive more than three classes.

## Doctoral Degree

<b>Requirements</b>	<b>Hours</b>
<b>Required Coursework</b> <sup>1,2</sup>	30
PY 704 Social Psychology	
PY 708 Developmental Psychology	
PY 718 Advanced Research Design	
PY 720 Human Neuropsychology or PY 731 Health Psychology	
PY 753 Foundations of Behavioral Neuroscience or PY 793 Cognitive Neuroscience	
PY 769 Cognitive Behavior Therapy	
PY 760 Interviewing and Behavioral Observation	
PY 778 Psychotherapy Practice Initial	
PY 797 Clinical Practicum in Medical Psychology	
<b>Additional Requirements</b> <sup>3</sup>	
PY 702 History and Systems of Psychology <sup>4</sup>	
PY 779 Foundations of Clinical Supervision and Consultation <sup>5</sup>	
GRD 717 Principles of Scientific Integrity <sup>6</sup>	
<b>Wavier Deficit</b> <sup>7</sup>	
<b>Doctoral Dissertation</b> <sup>8</sup>	12
PY 799 Doctoral Dissertation Research	
<b>Internship</b> <sup>9</sup>	27

PY 790 Internship in Clinical Psychology 9

**Total Hours** 78

- 1 The following courses are required of all students. Some courses may be waived based on evaluation of coursework completed elsewhere prior to matriculation into the program\*. Course waivers do not reduce the Graduate School credit hour requirement in this category, and no course may be used to satisfy a requirement for both the doctorate in the Medical / Clinical Psychology Graduate Program and another degree, whether completed at UAB or elsewhere.
- 2 Completion of 27 credit hours of course work prior to candidacy.
  - Up to 6 credits of the 27 can be non-dissertation research credits.
 Up to 6 credits can be lab rotation, seminar, or directed study credits
- 3 The following courses are required of some students, depending on their year of matriculation or their year of admission.
- 4 For Students graduating prior to 2019.
- 5 For students graduating in 2018 or later.
- 6 For students who entered the program in 2014 or later.
- 7 Students who do not meet the 27-hour minimum in this category due to course waivers can make up the deficit with any combination of the following:
  1. Other elective courses approved by the program for this purpose.
  2. Up to 6 hours of PY 698, 699, and 798. Counts as non-dissertation research credits.
 None of these additional credits may have been applied toward another degree (including the master's in Clinical / Medical Psychology).
- 8 Either during or before candidacy, 12 semester hours in other appropriate research-based coursework which has been approved by the graduate student's program
- 9 Either during or before candidacy, 12 semester hours in other appropriate research-based coursework which has been approved by the graduate student's program

## Social Work

### Department of Social Work MSW Program

Training the finest professionals in the areas of clinical/medical social work requires settings that provide the best opportunities for students to develop the complex skills needed to provide services.

Students in the UAB Master of Social Work program will receive advanced training using an innovative model of evidence-based education in the resource-rich environment provided by UAB, including world-class Schools of Medicine and Public Health.

The MSW program will prepare students for clinical and community practice, including specific focus on interventions demonstrated to be effective for specific populations. Combining extensive internships in health and mental health settings with coordinated classroom learning, students will be uniquely trained in clinical and community practice.

The MSW is a terminal professional degree, focusing on developing advanced practice competencies. The majority of non-academic Social Work jobs are at this level, and an MSW degree is required to achieve licensure for independent clinical practice.

The program is accredited by the Council on Social Work Education.

## Program Requirements

The MSW consists of 61 credit hours, divided into foundation level (13 hours) and concentration level (48) hours. Courses are sequenced so that students will graduate in four semesters.

Foundation courses are compressed into a single semester, allowing students three semesters to gain advanced clinical skills. The concentration sequence is three semesters of coursework with specific focus on courses aimed at developing specific practice competencies, and courses on the specific populations who will be the recipients of behavioral health and health interventions.

## Field Practicum

In the Field Practicum, students are prepared for post-graduate employment through a series of experiences in community agencies. Students are paired with Field Supervisors who are professionals with at least two years of post-graduate experience.

Students have field experiences all four semesters, consisting of 1000 total contact hours. Activities in the field are sequenced to lead to independent practice, beginning in the initial setting with practice simulations and service learning in community agencies, continuing on with shadowing and supervised direct practice. The field experience is integrated across the curriculum, including conducting a research project as part of field practicum experience, and assignments paired to practice courses.

The field experience uses closely monitored experiences in community settings to allow students more direct experience. This approach is designed to increase student readiness for the more specialized upper level practice associated the clinical social work.

## Advanced Standing

Students holding a Bachelor of Social Work degree from a BSW program accredited by the Council on Social Work Education (CSWE) may be admitted to the MSW program with advanced-standing status. The required coursework is completed over three semesters (Fall/Spring/Fall). Student with advanced standing have field experiences over three semesters consisting of 900 total contact hours.

## Admission Requirements

All applicants must meet admissions requirements established by the UAB Graduate School; including completion of a Bachelor's degree (or higher), and minimum **GPA of 3.0 (on a four-point scale) in junior and senior level course work.**

**Please note: Only full-time students will be admitted into the program at this time.**

An admissions packet will consist of the following items:

- Academic transcripts with GPAs
- Two recommendations, including one academic and one professional
- A resume
- A writing sample answering 2 specific questions around professionalism, ethics, diversity, and social justice
- International students will be required to submit scores from the TOEFL
- The GRE is not required

Applications will be read by members of the MSW Admissions Committee, which will include the MSW program director, two faculty members and an outside reviewer.

The deadlines to apply to the MSW program follow the UAB Graduate School application deadlines.

## Master of Social Work in Clinical/ Medical Social Work

Students who have a non-social work undergraduate degree from an accredited College or University may be admitted as a student to 2-year (4 semester/61 credit) curriculum (Regular admission). Students who hold a BSW from a social work program accredited by the Council on Social Work Education may apply for Advanced Standing admission. Students entering the program as Advanced Standing are not required to complete Foundation courses and begin with the advanced curriculum (3 semester/48 credit).

Requirements	Hours
SW 510 Social Work Practice with Individuals, Groups & Organizations	3
SW 520 Social Work Policy	3
SW 530 Research I	3
SW 590 Field Practicum I	3
SW 591 Field Practicum Seminar I	1
SW 610 Diagnosis and Assessment for Health and Behavioral Health	3
SW 640 Human Behavior in the Social Environment for Health and Behavioral Health	3
SW 630 Research with Health and Behavioral Health Populations I	3
SW 693 Field Practicum Seminar II	1
SW 690 Field Practicum II	6
SW 631 Research with Health and Behavioral Health Populations II	3
SW 615 Evidence-informed Interventions in Health and Behavioral Health I	3
SW 653 Social Work Practice along the HIV Continuum of Care	3
SW 599 Special Topics in Social Work	3
SW 691 Field Practicum III	6
SW 616 Evidence-informed Interventions in Health and Behavioral Health II (Groups, Organizations, Comm)	3
SW 650 Evidence-Based Practice in Mental Health	3
or SW 651 Evidence-Based Practice in Addictions	
SW 694 Field Practicum Seminar III	1
SW 620 Policy Analysis and Advocacy Practice for Health and Behavioral Health	3
SW 692 Field Practicum IV	6
SW 695 Field Practicum Seminar IV	1
<b>Total Hours</b>	<b>64</b>

## Sociology

To obtain specific admissions requirements on how to apply to Graduate School, prospective students should visit this page:

<http://www.uab.edu/cas/sociology/graduate-programs/online-professional-ma/online-ma-admissions>

Degree Offered:	M.A. in Sociology, Ph.D. in Medical Sociology
Director:	Patricia Drentea, Ph.D.
Phone:	(205) 934-2562
E-mail:	pdrentea@uab.edu
Website:	<a href="http://www.uab.edu/sociology/graduate-programs">http://www.uab.edu/sociology/graduate-programs</a>

## Medical Sociology

Prospective students should use website below to obtain specific admissions requirements on how to apply to Graduate School:

<http://www.uab.edu/cas/sociology/graduate-programs/online-professional-ma/online-ma-admissions>

## Medical Sociology Ph.D. Program

This program is designed to provide students with the coursework and research experiences to become leading researchers, professors and practitioners in medical sociology. Doctoral training in medical sociology exposes students to the central issues of the field through a variety of methodological techniques encompassing both qualitative and quantitative approaches. Graduate students study the social and cultural bases of health beliefs and behaviors, organizational structures of health care delivery, and health disparities relationships, to name just a few examples. Students acquire expertise in theory formulation and data analysis.

There are abundant opportunities for graduate students to work with faculty on research projects in medical settings across the campus.

## Admission

Admission to the Ph.D. program in medical sociology generally requires a minimum overall score of 290. Scores should range from 150-162 verbal and 140-157 Quantitative. Minimum GPA of 3.0 (A = 4.0), or a 3.2 GPA for the last 60 semester hours in a B.A. or B.S. program; and minimum GPA of 3.5 in all previous graduate coursework. Students should have completed at least 18 hours in social science courses, including social theory, statistics, and research methods. Students entering the program with a master's degree can waive 16 hours of courses, of which 6 credits are thesis research credits. Please see the sociology website for more information coming in with an MA, MPH, or MS. Because of the interdisciplinary nature of the Medical Sociology Ph.D. program, students with diverse backgrounds in social science and health-related fields are encouraged to apply. Students lacking adequate backgrounds in theory, research methods, or statistics may be required to make up deficits after enrollment.

## Advising

The Graduate Director and/or the student's faculty mentor will provide continuous advisement on academic progress during the student's graduate study, including assistance with course selection and recommendations for research experiences that are consistent with the student's developing interests and abilities. In addition, each year the student will be formally evaluated by the Graduate Committee and will be provided with performance feedback.

Research supervision is provided by faculty whom students select to chair the master's thesis and doctoral dissertation committees. Typically,

the student will select persons with whom a close, supportive relationship develops.

The placement of Ph.D. students in research sites within the Department and/or in areas across campus is an important part of the Medical Sociology Program. Such placements usually involve assisting faculty on research grants. Such experiences provide students with invaluable real-life exposure to medical sociology "in action." As such, they are important accompaniments to the coursework of the Ph.D. program. Teaching and research positions are offered to students based on department needs, funding available and student merit.

## Financial Aid

All students admitted to the Ph.D. program will be considered for financial aid. Sources include graduate fellowships and assistantships.

## Additional Information

Deadline for Entry Term(s):	Fall
Deadline for All Application Materials to be in the Graduate School Office:	August 1
Number of Evaluation/recommendation Forms Required:	Three
Entrance Tests:	GRE (TOEFL, IELTS and TWE also required for international applicants whose native language is not English.)

Ph.D. Program in Medical Sociology <http://www.uab.edu/sociology/>

For detailed information, contact UAB Department of Sociology, HHB 460A, 1401 University Boulevard, Birmingham, Alabama 35294-1152.

Telephone 205-934-2562

E-mail [pdrentea@uab.edu](mailto:pdrentea@uab.edu)

Web <http://www.uab.edu/sociology/>

## Curriculum

The components of the Ph.D. program are as follows:

### 1. Required Coursework

#### Medical Sociology Core (9 hr)

Required:

Requirements	Hours
SOC 780      Advanced Medical Sociology	3

2 of the following Required Electives:

Requirements	Hours
SOC 724      Research Colloquium in the Body and Health	3
SOC 734      Global Health	3
SOC 735      Special Topics in Global Health	3
SOC 755      Race/Ethnicity and Health	3
SOC 756      Gender and Health	3
SOC 775      Place and Health	3
SOC 781      Sociology of Health and Illness	3
SOC 783      Health Care Delivery Systems	3

SOC 785      Family and Health	3
SOC 786      Health Disparities	3
SOC 787      Sociology of Mental Health	3
SOC 788      Social Medicine	3

### Theory Core (6 hr)

Required:

Requirements	Hours
SOC 720      Classical Theory	3
SOC 722      Contemporary Sociological Theory	3

### Statistics and Research Core (15 hr)

Requirements	Hours
SOC 601      Data Management and Analysis	3
SOC 703      Regression Analysis	3
SOC 704      Categorical Data Analysis	3
SOC 705      Advanced Research Methods	3
SOC 711      Qualitative Methods	3

### Research Hours

Master's Thesis Research Hours (6 hr)

Doctoral Dissertation Research Hours (24 hr)

**Sociology/Health Electives/Transfer Credits** (30 hr--up to 6 hours outside department)

GRD 717 **Responsible Conduct of Research** requirement by the university (3 hr)

### Proseminars (3 hr)

Proseminar, SOC 702 - 1 hr Fall Research

Proseminar, SOC 702 - 1 hr Spring Professionalization

Proseminar, SOC 702 - 1 hr Summer Teaching

\*students may take up to 3 790-793 classes for credit as electives.

\*students may take 2 in-department link to MA courses towards their degree

### 2. Graduate Proseminar Functions

The graduate proseminar series (SOC 702) is required of all entering doctoral graduate students for their initial three terms in the graduate program. These classes familiarize new students with departmental policies and procedures, as well as various facets of the profession of sociology. This series should not only help students become situated within the graduate program, but also give them an opportunity to become better acquainted with the faculty and graduate student body. Students should also gain experience with basic professional skills such as identifying appropriate journals, creating a curriculum vitae, identifying one's own research interests, developing basic classroom skills, and addressing ethical issues associated with the profession of sociology.

### 3. The Master's Thesis

Students pursuing the doctoral degree must follow Plan I (Thesis Plan) of the existing master's degree program by producing a research-based thesis, but two types of documents will be acceptable. The first is a traditional thesis organized in the form of an extensive book monograph. This option is especially appropriate for qualitatively based research.

The second acceptable type of document is a manuscript in the standard form of a journal article with appended materials. Specifically, this journal article thesis will consist of:

1. A forward which places the research in context, specifying the journal to which the article is to be submitted, delineating the rationale for co-authorship (if appropriate), and making acknowledgments;
2. A journal article manuscript with a text no longer than the page limitations of a journal selected by the committee, plus footnotes, references, tables, and figures;
3. An appendix with an annotated bibliography of relevant literature;
4. An appendix that details, in full, the methodological procedures;
5. An appendix of measurement instrumentation (e.g., survey instruments, in-depth interview schedules, observational logs, etc.);
6. An appendix of additional tables and/or samples of observational notes;
7. An appendix of other research documentation such as survey cover letters, human subject review approval forms, and letters of support and approval from facilities at which the research was conducted.

The master's thesis process involves:

1. Formation of the thesis committee;
2. Oral defense of a written thesis research proposal;
3. Oral defense of the completed thesis;
4. Submission of the completed manuscript to the Graduate School;
5. Submission of the journal article for publication.

The thesis committee consists of a minimum of three full-time faculty members, including one from outside the Department of Sociology. This committee will be responsible for guiding the research process, evaluating the final draft of the thesis, presiding over the oral defenses of the thesis proposal and the completed manuscript, and approving the journal article for submission for publication. In addition to meeting general M.A. degree requirements, before being admitted to candidacy for the M.A. degree, a student in the Ph.D. program in Medical Sociology must have completed the master's level core course in theory (SOC 722) and the core methods courses (including SOC 601 or SOC 703 and SOC 704 and SOC 705 or SOC 711), completed two of the five courses in the medical sociology core, and made a successful oral defense of the thesis proposal.

For those students entering with a master's degree, the graduate director will review the student's transcript, evaluate course transfers (if any), and devise a course plan. This student's doctoral advisory committee also will handle the student's admission to candidacy and the requirement of submitting a journal article for review. The student with the master's degree will not be required to make oral defenses of his/her thesis work from another institution.

## 4. Comprehensive Exams

All doctoral students who enter the program in Fall 2010 or later must take a comprehensive examination no later than the third week of the fourth fall after being admitted to the Ph.D. program.

The comprehensive examination should be taken in a specialty area chosen by the student. The specialty area must be a combination of health and one substantive area reflecting the specialties of the faculty (e.g., aging and health, health behaviors, community health, health and demography, health and family, health inequality, health policy, etc.). The advisory committee will consist of three faculty members selected by the

Graduate Committee. Prior to taking the examination, the student should meet with the advisory committee to develop a reading list based on the specialty area. Comprehensive exams will be offered in the 3rd week of fall and spring semesters. Please see the department handbook for more information.

The comprehensive examination will include five questions decided by the advisory committee reflecting major theoretical, methodological, and substantive issues in the student's chosen specialty area. The student will answer four of the five questions as a take-home exam, which will be distributed at 4:00 p.m. Friday and will be due the following Monday at 9:00 a.m. The members of the advisory committee will grade the examination on a pass/fail basis. Students who fail the examination but wish to continue in the program must take a make-up examination in the following Fall Semester. Students who fail the make-up examination will be terminated from the Ph.D. program. Failure to take the exams by the fourth fall in the program will lead to an evaluation of not making sufficient progress and may result in funding being ended. Graduate students may not discuss their exam with anyone during examination time. They may discuss any clarification questions with the chair of the comprehensive advisory committee if needed.

## 5. The Doctoral Dissertation

The dissertation process is as follows:

1. Formation of the dissertation committee;
2. Oral defense of a written dissertation research proposal;
3. Oral defense of the completed dissertation;
4. Submission of the completed manuscript to the Graduate School.

In consultation with faculty, and near the completion of all substantive coursework, a student forms a dissertation committee consisting of at least five members, with two from outside the Department of Sociology. This committee will be responsible for guiding the research process, evaluating the final draft of the dissertation, and presiding over the oral defenses of the dissertation proposal and the completed manuscript. A student is admitted to candidacy after successful oral defense of the dissertation proposal and no earlier than the term in which the required substantive coursework is completed.

# Sociology

## Sociology M.A. Program

Prospective students should use website below to obtain specific admissions requirements on how to apply to Graduate School:

<http://www.uab.edu/cas/sociology/graduate-programs/online-professional-ma/online-ma-admissions>

The Department of Sociology offers two plans (Plan I and Plan II) for the M.A. Degree

## Master of Arts in Sociology

The online Applied Sociology M.A. degree (Plan II) provides strong disciplinary training, along with professional and research experience, to prepare students for careers in business, non-profits, government agencies and the continued professional development of teaching careers. This degree cannot be used as a step toward obtaining a PhD in Medical Sociology. To be admitted in good standing, candidates must meet all Graduate School admission requirements. Receipt of a grade of

C or F in two or more required courses will result in termination from the online MA program in Applied Sociology.

Students deciding to move into the Medical Sociology Ph.D. Program will need to meet the core requirements from Plan I (refer to Medical Sociology PhD requirements.)

Requirements	Hours
SOC 713 Intro to Applied Sociology Research Methods	3
or SOC 714 Survey Research Methods	
SOC 723 Applied Sociological Theory	3
SOC 726 Applied Sociology	3
SOC 727 Applied Social Psychology	3
SOC 776 Capstone Project	6
<b>Electives (12 hours):</b>	<b>12</b>
SOC 711 Qualitative Methods	
SOC 715 Program Evaluation	
SOC 728 Teaching Sociology	
SOC 729 Consumer Culture	
SOC 786 Health Disparities	
SOC 789 Patient Care Relations/Ethics	
SOC 792 Seminar in Substantive Sociological Areas	
SOC 737 Practicum in Innovation, Creativity, and Applied Sociology	
SOC 745 Sociological Practice	
SOC 783 Health Care Delivery Systems	
<b>Total Hours</b>	<b>30</b>

## Biomedical Sciences (Joint Health Sciences)

### Graduate Biomedical Sciences

Degree offered:	PhD
Associate Dean, Graduate Biomedical Sciences:	David Schneider, PhD
Email:	dschneid@uab.edu

The University of Alabama at Birmingham offers a large and diverse community of scientists focused on innovation in modern biomedicine. The thrill of discovery is evident across campus—UAB routinely ranks among the top research-intensive universities for extramural funding and research productivity.

The Graduate Biomedical Sciences (GBS) Doctoral Training Program is designed to provide students with rigorous, interdisciplinary education and mentorship in a wide array of scientific disciplines. GBS trainees can perform doctoral research in more than 350 different labs across campus. Because of the program's scale and the number of affiliated faculty, it is subdivided into eight individual themes that provide discipline-specific training and opportunities for smaller-scale connections within the overall community.

#### *Interdisciplinary Themes:*

Biochemistry, Structural, & Stem Cell Biology (BSSB) Theme

Cancer Biology (CANB) Theme

Cell, Molecular, and Developmental Biology (CMDDB) Theme

Genetics, Genomics, and Bioinformatics (GGB) Theme

Immunology (IMM) Theme

Microbiology (MIC) Theme

Neuroscience (NESC) Theme

Pathobiology and Molecular Medicine (PBMM) Theme

**For a full listing of GBS Faculty, visit here.**

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**Completion of the training requirements in one of the above interdisciplinary themes provides eligibility for conferral of one of the following PhD degrees:**

- Biochemistry and Molecular Genetics
- Cell Biology
- Cellular and Molecular Physiology
- Genetics
- Microbiology
- Neurobiology
- Pathology
- Pharmacology and Toxicology

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**If you have any further questions, please contact the following GBS Office Staff or visit the GBS website.**

Finance & HR Contact:	Felita Milon, M.S.A.
Email:	fmilon@uab.edu
Curriculum & Website Contact:	Jessica Stephenson, NCC
Email:	jstephenson@uab.edu
Process Management Contact:	Nan Travis
Email:	ntravis@uab.edu
Admissions, Events, & Communications Contact:	Alyssa Zasada, M.Ed.
Email:	zasada@uab.edu

## Biochemistry, Structural, and Stem Cell Biology Theme

Theme Director:	Thomas Ryan, PhD
Email:	tryan@uab.edu
Theme Co-Director:	Chad Petit, PhD
Email:	cpetit@uab.edu
Website:	<a href="https://www.uab.edu/gbs/home/themes/bssb">https://www.uab.edu/gbs/home/themes/bssb</a>
GBS Email:	grad-gbs@uab.edu

### Theme Information

Biochemistry, Structural & Stem Cell Biology (BSSB) is looking for students who have a strong desire to understand life at the molecular level. Our goal is to teach the skills, implant the inspiration, encourage imagination, and nurture the dedication essential for our graduates to become world-class researchers.

Our faculty and students are dedicated to excellence in both coursework and research programs, and we are honored that our team's accomplishments and discoveries have been chronicled in (*Nature*, *Structure*, other names here) and other noted journals and publications of record. New students join a select family of faculty and students who work and study together within the Biochemistry, Structural, and Stem Cell Biology Theme at UAB. We teach you how to think- what questions to ask and where to search for answers. We give you the skills and background necessary to launch a successful scientific career as an independent researcher.

Whether you choose to pursue advanced studies in molecular genetics, stem cell biology, or many of the diverse areas of research within the Biochemistry, Structural, and Stem Cell Biology theme, you will find the work interesting, challenging and rewarding. It piques the curiosity, sparks the imagination, enlists your resourcefulness and brings a sense of fulfillment that comes from exciting research and exhilarating discover.

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## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

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## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 781 Molecular Enzymology	
GBS 782 Molecular Genetics	
GBS 783 RNA Biology	
GBS 784 Stem Cell Biology	
<b>Theme Required Courses</b>	8
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	6
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	2
<b>Three Advanced Courses</b> <sup>3</sup>	9
<b>Journal Clubs</b> <sup>4</sup>	8
<b>Research Hours</b> <sup>5</sup>	24
<b>Total Hours</b>	<b>74</b>

<sup>1</sup> Required each fall and spring semester, 2nd year until graduation

<sup>2</sup> Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726

- <sup>3</sup> Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732 GBSC 734, GBSC 735, GBSC 740, GBSC 741 or approved course.
- <sup>4</sup> Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720
- <sup>5</sup> 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

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## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

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## Theme Faculty

The faculty listing for the Biochemistry and Structural Biology theme is located here.

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## Cancer Biology Theme

Theme Director:	Lalita Shevde-Samant, PhD
Email:	lsamant@uab.edu
Theme Co-Director:	Soory Varambally, PhD
Email:	soorya@uab.edu
Website:	<a href="https://www.uab.edu/gbs/home/themes/cancer">https://www.uab.edu/gbs/home/themes/cancer</a>
GBS Email:	grad-gbs@uab.edu

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## Theme Information

The goal of the Cancer Biology (CANB) theme is to train the next generation of cancer biologists so that they will make significant contributions to basic and clinical research. Students will receive training over a broad base—integrating molecular, cellular, biochemical and biological experimental approaches. Combinations of courses, seminars, small group discussions and hands-on research provide each student with a customized dissertation experience. Students will have opportunities to work with outstanding investigators throughout the UAB campus in the areas of tumor micro-environment, metastasis, cancer genetics, stem cells, gene therapy of cancer, pharmacology/toxicology, signaling and tumor immunology. Successful graduates will have a firm foundation upon which they can build careers in academia, research institutions, industry or government.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 710 Cell Signaling	
GBS 720 Genomic Structure and Function	
GBS 769 Carcinogenesis	
GBS 774 Cancer Immunology	
<b>Theme Required Courses</b>	18
GBS 770 Pathobiology of Cancer	
GBS 777 Cancer Biology Seminar <sup>1</sup>	
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	6
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	2
<b>Three Advanced Courses</b> <sup>3</sup>	9
<b>Journal Clubs</b> <sup>4</sup>	8
<b>Research Hours</b> <sup>5</sup>	24
<b>Total Hours</b>	84

<sup>1</sup> Required each fall and spring semester, 2nd year until graduation

<sup>2</sup> Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726

<sup>3</sup> Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741 or approved course.

<sup>4</sup> Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720

<sup>5</sup> 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage health

**insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000.** The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Cancer Biology theme is located here.

## Cell, Molecular, and Developmental Biology Theme

Theme Director:	Alecia Gross, PhD
Email:	agross@uab.edu
Theme Co-Director:	John Parant, PhD
Email:	jparant@uab.edu
Website:	<a href="https://www.uab.edu/gbs/home/themes/cmdb">https://www.uab.edu/gbs/home/themes/cmdb</a>
GBS Email:	grad-gbs@uab.edu

## Theme Information

The Cell, Molecular, and Developmental Biology (CMDB) graduate theme is part of an umbrella graduate program in Biomedical Sciences that focuses on basic process in cell, molecular and developmental biology and how defects in these processes result in human diseases and birth defects. CMDB students will receive comprehensive training and instruction in cell, molecular, and developmental biology using modern tools and approaches as well as a wide range of model organisms and cell culture systems. The overall goal of the theme is to develop well-rounded scholars with expertise applicable to multiple fields pertinent to a productive research and teaching career in academic science centers, research institutions, and industry.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 710 Cell Signaling	
GBS 712 Cellular and Molecular Aspects of Developmental Biology	
GBS 714 Developmental Neuroscience	
GBS 784 Stem Cell Biology	

<b>Theme Required Courses</b>	19
GBS 717 Methods and Scientific Logic	
GBS 723 Model Systems for Genetic Analyses	
GBS 792 CMDB Seminar <sup>1</sup>	
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	6
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	2
<b>Three Advanced Courses</b> <sup>3</sup>	9
<b>Journal Clubs</b> <sup>4</sup>	8
<b>Research Hours</b> <sup>5</sup>	24
<b>Total Hours</b>	<b>85</b>

<sup>1</sup> Required fall and spring semester, 2nd year until graduation.

<sup>2</sup> Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726

<sup>3</sup> Courses selected from the following: GBS 700, GBS 702, GBS 705, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 745, GBS 749, GBS 754, GBS 755, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740 GBSC 741 or approved course.

<sup>4</sup> Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720.

<sup>5</sup> 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Cell, Molecular, and Development Biology theme is located here.

# Genetics, Genomics and Bioinformatics Graduate Program (GGB)

Theme Director:	Kevin Dybvig, PhD
Email:	dybvig@uab.edu
Theme Co-Director:	Zsuzsa Bebok, MD
Email:	bebok@uab.edu

Website:	<a href="https://www.uab.edu/gbs/home/themes/ggb">https://www.uab.edu/gbs/home/themes/ggb</a>
GBS Email:	grad-gbs@uab.edu

## Theme Information

The main goal of the Genetics, Genomics and Bioinformatics Graduate Program (GGB) is to provide students with an outstanding, flexible, didactic training experience to prepare them for independent and innovative careers in research. The Program emphasizes a broad approach to the fundamental principles of genetics and genomics, and offers a large pool of mentors with expertise in a wide variety of areas. The GGB theme offers close day-to-day interactions between students and faculty, both in the classroom and the laboratory.

The research interests of our program faculty span the fields of genetics, genomics, cancer, biochemistry, cell biology, and developmental biology. Modern molecular approaches are used to study gene structure, expression, and function in diverse experimental systems including humans, mice, *Drosophila*, *C. elegans*, and other organisms such as bacteria. The GGB theme is also designed to permit close collaborations during the Ph.D. training period between graduate students, postdoctoral fellows, and faculty, while also encouraging full participation in the larger community of biological scientists at UAB.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation I	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 724 Principles of Human Genetics	
GBS 720 Genomic Structure and Function	
GBS 722 Bioinformatics	
GBSC 718 Epigenetics	
<b>Theme Required Courses</b>	11
GBS 717 Methods and Scientific Logic	
GBS 723 Model Systems for Genetic Analyses	
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	6
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	2
<b>Three Advanced Courses</b> <sup>3</sup>	9
<b>Journal Clubs</b> <sup>4</sup>	8

Research Hours <sup>5</sup>	24
<b>Total Hours</b>	<b>77</b>

- Required each fall and spring semester, 2nd year until graduation.
- Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726.
- Courses selected from the following: GBS 700, GBS 702, GBS 705, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 749, GBS 754, GBS 757, GBS 765, GBS 767, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741, or approved course.
- Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720
- 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Genetics, Genomics, and Bioinformatics theme is located here.

## Immunology Theme

Theme Director:	Louis B. Justement, PhD
Email:	lbjust@uab.edu
Theme Co-Director:	Laurie Harrington, PhD
Email:	lharring@uab.edu
Theme Co-Director:	Christopher Klug, PhD
Email:	chrisk@uab.edu
Website:	<a href="https://www.uab.edu/gbs/home/themes/ggb">https://www.uab.edu/gbs/home/themes/ggb</a>
GBS Email:	grad-gbs@uab.edu

## Theme Information

The Immunology Graduate Theme is a part of the UAB Graduate Biomedical Sciences Program. We are an interdisciplinary program emphasizing the study of multiple aspects of the immune system, from basic molecular mechanisms to whole animal studies and human translational research. The remarkable breadth of our program can be seen in the primary departments of the almost fifty theme faculty members. Faculty from the Departments of Microbiology, Cell Biology, Biochemistry and Molecular Genetics, Genetics, Biology, Pathology, Medicine, Pediatrics, Environmental Health Sciences, Epidemiology, Surgery, Ophthalmology, Dermatology, and Dentistry are involved in

internationally recognized research and in the training of PhD-level graduate students and postdoctoral fellows. Currently, forty-five students are in training in the laboratories of our immunology faculty. Primary areas of research include: Allergy, Autoimmunity, Cancer Immunology, Clinical/Translational, Developmental Immunology, Host Defense, Immunodeficiency, Immunogenetics, Inflammation, Mucosal Immunology, Neuroimmunology, Structural Immunology, and Transplantation Immunology. Students obtaining a PhD in the Immunology Graduate Theme will be well-versed in modern immunology and have the option to pursue diverse career pathways.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	<b>3</b>
GBS 795 Lab Rotation I	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	<b>6</b>
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	<b>8</b>
GBS 740A Introduction to Immunology Part 1	
GBS 740B Introduction to Immunology Part 2	
GBS 741 Lymphocyte Biology	
GBS 744 Mucosal Immunology	
<b>Theme Required Courses</b>	<b>8</b>
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	<b>6</b>
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	<b>2</b>
<b>Three Advanced Courses</b> <sup>3</sup>	<b>9</b>
<b>Journal Clubs</b> <sup>4</sup>	<b>8</b>
<b>Research Hours</b> <sup>5</sup>	<b>24</b>
<b>Total Hours</b>	<b>74</b>

- Required fall and spring semester, 2nd year until graduation.
- Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726.
- Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 745, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741 or approved course.
- Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720

<sup>5</sup> 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Immunology theme is located here.

## Microbiology

Theme Director:	Janet Yother, PhD
Email:	jyother@uab.edu
Theme Co-Director:	Sunnie Thompson, PhD
Email:	sunnie@uab.edu
Website:	<a href="https://www.uab.edu/gbs/home/themes/mic">https://www.uab.edu/gbs/home/themes/mic</a>
GBS Email:	grad-gbs@uab.edu

## Theme Information

The Microbiology (MIC) theme is a part of the UAB Graduate Biomedical Sciences Program. We are an interdisciplinary program emphasizing the study of bacteria, viruses, fungi, and parasites. Over 40 faculty members from the Departments of Microbiology, Cell Biology, Biochemistry and Molecular Genetics, Genetics, Pathology, Medicine, Pediatrics, and Dentistry are involved in internationally renowned research and the training of Ph.D.-level graduate students. Currently, more than 70 students are in training in the laboratories of our faculty. Primary areas of research interest include the genetics, physiology, and molecular biology of microbes and how microbial pathogens cause disease. Basic cellular processes, host-pathogen interactions, and the design of innovative strategies for the prevention and treatment of infectious diseases are under study in the laboratories of our faculty. Students graduating from the Program are well-versed in modern microbiology and have the experience to pursue a diversity of career opportunities.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6

GBS 707	Basic Biochemistry and Metabolism	
GBS 708	Basic Genetics and Molecular Biology	
GBS 709	Basic Biological Organization	
<b>Module Courses</b>		8
GBS 760	Prokaryotic Genetics and Molecular Biology	
GBS 764	Structural Biology for Micro	
GBS 763	Microbial Pathogenesis	
GBS 762	Virology	
<b>Theme Required Courses</b>		8
GBSC 742	GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>		6
GBSC 731	Intro to Biostats	
GRD 717	Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>		2
<b>Three Advanced Courses</b> <sup>3</sup>		9
<b>Journal Clubs</b> <sup>4</sup>		8
<b>Research Hours</b> <sup>5</sup>		24
<b>Total Hours</b>		74

- Required fall and spring semester, 2nd year until graduation.
- Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726.
- Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741, or approved course.
- Required each fall and spring, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793
- 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Microbiology theme is located here.

## Neuroscience Theme

Theme Director:	Karen Gamble, PhD
Email:	klgamble@uab.edu
Theme Co-Director:	Lucas Pozzo-Miller, PhD
Email:	lucaspm@uab.edu

Website: <https://www.uab.edu/gbs/home/themes/nesc>

GBS Email: [grad-gbs@uab.edu](mailto:grad-gbs@uab.edu)

## Theme Information

The UAB Neuroscience (NEURO) theme is a portal into the comprehensive neuroscience research opportunities at UAB. Students entering the Neuroscience Graduate Theme will find a home and anchor for their entire graduate experience. Throughout a student's entire Ph.D. career, the faculty and staff of the Neuroscience Graduate Program provide continued support, encouragement, and guidelines for success. The theme-based UAB Neuroscience Graduate Program seeks to equip and train students to become tomorrow's innovative neuroscientists by

- Teaching basic neuroscience ideas that become stepping stones to more in-depth research
- Providing unique professional and scientific avenues through which they can develop their presentation skills, learn critical thinking and how to design experiments
- Offering students the opportunity to choose neuroscience research from a multitude of options available through labs all over campus, not limiting students to a department but, rather, a discipline
- Providing opportunities for informal interaction with other students to discuss research, scientific writing, as well as a social network of peers to assist students in staying grounded. Students enter the neuroscience theme either through direct admit into the program or after their first year when moving into the permanent lab of a neuroscience mentor. Neuroscience theme students follow the neuroscience curriculum and do not join a departmental graduate program nor follow a departmental graduate program curriculum. The student becomes affiliated with the department in which the mentor holds his/her primary appointment for the purpose of the awarding of the degree.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 710 Cell Signaling	
GBSC 729 Cell Neurophysiology	
GBS 714 Developmental Neuroscience	
GBSC 727 Neuro Systems	
<b>Theme Required Courses</b>	22
GBS 730 Introduction to Neurobiology (Dauphin Island Course) <sup>1</sup>	

GBS 733	Diseases of the Nervous System	
GBS 737	Neuro Student Summer Seminar Series <sup>2</sup>	
GBS 791	Graduate Neuroscience Journal Discussion <sup>3</sup>	
NBL 703	Neurobiology Seminar Series <sup>4</sup>	
<b>GBS Required Courses</b>		6
GBSC 731	Intro to Biostats	
GRD 717	Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>5</sup>		2
<b>Three Advanced Courses</b> <sup>6</sup>		9
<b>Journal Clubs</b> <sup>7</sup>		8
<b>Research Hours</b> <sup>8</sup>		24
<b>Total Hours</b>		<b>88</b>

- 1 Dauphin Island course- Required summer before the 1st year.
- 2 Required each summer semester.
- 3 Required each fall and spring of 1st year.
- 4 Required fall and spring semester, 2nd year until graduation.
- 5 Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726.
- 6 Courses selected from the following: GBS 700, GBS 702, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 749, GBS 754, GBS 757, GBS 765, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741, or approved course.
- 7 Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 793, GBSC 700, GBSC 720.
- 8 24 hours in GBS 799 or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Neuroscience theme is located here.

## Pathobiology and Molecular Medicine Theme

Theme Director:	Yabing Chen, PhD
Email:	<a href="mailto:ybchen@uab.edu">ybchen@uab.edu</a>
Theme Associate Director:	Robert van Waardenburg, PhD
Email:	<a href="mailto:rvaanwaar@uab.edu">rvaanwaar@uab.edu</a>

Website:	<a href="https://www.uab.edu/gbs/home/themes/pbmm">https://www.uab.edu/gbs/home/themes/pbmm</a>
GBS Email:	<a href="mailto:grad-gbs@uab.edu">grad-gbs@uab.edu</a>

## Theme Information

The Pathobiology & Molecular Medicine (PBMM) Graduate Program at UAB is the successor of the popular and highly successful Integrative Biomedical Sciences Graduate Program established in 1999. PBMM represents an expansion of the Integrative Biomedical Sciences Program and is designed to give students the very best multidisciplinary training within the emerging and exciting field of molecular medicine. The main objective of the program is to expose students to a diverse faculty with research interests that range from molecules - to whole organisms - to disease processes - to new therapies. Our premise is that students, when trained in basic principles of molecular and cellular biology, in addition to organ-based physiology, pharmacology and pathology, will be prepared to study biological processes at any level of organization. The important biomedical issues of today are sufficiently complex that the successful investigator must be able to tackle these issues using integrated, multifaceted approaches.

## Admissions

Prospective students should visit the GBS Admissions page for information on admissions requirements, application deadlines, and how to apply.

## Curriculum

Requirements	Hours
<b>Lab Rotations</b>	3
GBS 795 Lab Rotation 1	
GBS 796 Lab Rotation 2	
GBS 797 Lab Rotation 3	
<b>Core Courses</b>	6
GBS 707 Basic Biochemistry and Metabolism	
GBS 708 Basic Genetics and Molecular Biology	
GBS 709 Basic Biological Organization	
<b>Module Courses</b>	8
GBS 750 Nerves, Muscles and Bones	
GBS 751 Heart, Lung, and Kidney	
GBS 752 GI, Endocrine, and Immune System	
GBS 753 Pharmacology and Molecular Medicine	
<b>Theme Required Courses</b>	8
GBSC 742 GBS Student Theme Meeting Course <sup>1</sup>	
<b>GBS Required Courses</b>	6
GBSC 731 Intro to Biostats	
GRD 717 Principles of Scientific Integrity	
<b>Grant-Writing/Scientific-Writing</b> <sup>2</sup>	2
<b>Three Advanced Courses</b> <sup>3</sup>	9
<b>Journal Clubs</b> <sup>4</sup>	8
<b>Research Hours</b> <sup>5</sup>	24
<b>Total Hours</b>	<b>74</b>

- Required each fall and spring semester, 2nd year until graduation.
- Course selected from the following: GBS 716, GBS 725, GBS 768, GBSC 726.
- Courses selected from the following: GBS 700, GBS 702, GBS 705, GBS 715, GBS 718, GBS 726, GBS 727, GBS 729, GBS 732, GBS 739, GBS 745, GBS 749, GBS 754, GBS 755, GBS 757, GBS 765, GBS 767, GBS 775, GBS 778, GBS 779, GBSC 705, GBSC 706, GBSC 707, GBSC 708, GBSC 709, GBSC 710, GBSC 712, GBSC 715, GBSC 717, GBSC 721, GBSC 724, GBSC 725, GBSC 728, GBSC 730, GBSC 732, GBSC 734, GBSC 735, GBSC 740, GBSC 741, or approved course.
- Required each fall and spring semester, 2nd year until graduation. Courses selected from the following: GBS 728, GBS 736, GBS 746J, GBS 747J, GBS 756, GBS 766, GBS 776, GBS 786J, GBS 791, GBS 793, GBSC 700, GBSC 720.
- 24 hours in GBS 799, or 12 hours in GBS 798 and 12 hours in GBS 799.

## Financial Support

All students accepted into GBS programs receive a **competitive annual stipend and fully paid tuition and fees**. Single coverage **health insurance is also provided** at no cost to the student through VIVA Health UAB. **The annual stipend for the current academic year is \$29,000**. The total annual award value, including stipend, tuition, fees and health insurance is >\$37,500. Stipends are reviewed and updated regularly.

## Theme Faculty

The faculty listing for the Pathobiology & Molecular Medicine theme is located here.

## School of Dentistry

**Interim Dean:** Michelle Robinson, D.M.D., M.A.

The School of Dentistry offers degree programs leading to a Master of Science in Dentistry and the DMD/PhD in Dentistry. Advanced clinical specialty training and research, leading to the degree of Master of Science in Dentistry, is offered to meet two areas of need: the preparation of qualified teachers and investigators in the various branches of academic dentistry and the preparation of fully trained dental specialists.

The UAB School of Dentistry DMD/PhD program prepares students for an exciting career in dental academics through an innovative integrated clinician scientist training program. Students in the program are allowed to apply credits earned in both dental and graduate school towards a specialized program earning both a DMD degree and a PhD degree in a biomedical science.

## Dentistry

Degree Offered:	M.S.
Director, Dentistry:	Dr. Amjad Javed
Phone:	(205) 996-5124

E-mail: [javeda@uab.edu](mailto:javeda@uab.edu)  
 Website: [www.dental.uab.edu](http://www.dental.uab.edu)

## Program Information

Advanced clinical specialty training and research, leading to the degree of Master of Science in Dentistry, is offered to meet two areas of need: the preparation of qualified teachers and investigators in the various branches of academic dentistry and the preparation of fully trained dental specialists. The program is a combination of the conventional work for the M.S. degree plus the achievement of proficiency in some phase of clinical dentistry. The course of study requires a minimum of two academic years; most students will require three years to complete the work. The applicant must be a graduate of an accredited school of dentistry, or an undergraduate school and must have achieved, in both pre dental and dental requirements, a superior scholastic record.

At the time of enrollment in the Graduate School, the student is assigned an appropriate faculty advisor, who works with the student in outlining a course of study consistent with objectives. This curriculum must cover the three areas of a selected phase of clinical dentistry, a related basic health science, and research.

## Major and Minor

The major field of study must be selected from the following: dental biomaterials, endodontics, general dentistry, hospital dentistry, maxillofacial prosthetics, oral surgery, orthodontics, pediatric dentistry, periodontics, prosthodontics, public health dentistry, or oral biology. The program requires a minimum of 30 graduate credits. Not less than 18 semester hours of credit in the program must be in the major subject, with the minimum acceptable grade being B. A minor must involve at least six semester hours of study in one or two basic health science departments related to the student's major and research interests.

By the time the student has been in residence one year and has finished some of both major and minor courses, the student and the advisor should recommend to the Graduate School dean at least two additional graduate faculty members, one from outside the student's specialty area, for appointment to the graduate study committee. The student should discuss with his/her committee plans for the remaining course of study, including a proposed thesis title and outline of experimental design. Depending upon the nature of the research plan, it may be desirable for a different advisor to be appointed, serving either as co-chair or as new chair of the graduate study committee. At this time, demonstration of a reading knowledge related to literature review, competence in research and experimental design, understanding of biostatistics, experience with computer and other techniques may be required, as appropriate to the student's investigation.

## Admission to Candidacy

When the graduate study committee is satisfied that the student is prepared to undertake the research, the student is admitted to candidacy for the master's degree. This step should be taken at least two semesters before the anticipated date of completion of the program.

## Research and Thesis

Sufficient research work to train the candidate in the principles and methods of scientific investigation is required. The research project should involve the student's own intensive work in some area of dentistry, preferably related to the basic health sciences. The thesis is based on the research study and must show the candidate's ability to delineate a

problem, logically plan its solution, and present the results of the work in an orderly fashion. Familiarity with the literature of the field is expected.

## Final Examination

The final oral examination is administered by the student's graduate study committee before the deadline is set by the Graduate School. The examination begins with oral presentation and defense of the thesis and may include any work fundamental thereto. At the close of the examination, the committee votes on the candidate, taking into account all of the work undertaken. Majority approval is required.

## Additional Information

Deadline for Entry Term(s):	Consult Program Director for information
Deadline for All Application Materials to be in the Graduate School Office:	Variable
Number of Evaluation Forms Required:	Three
Entrance Tests	DDS (TOEFL and TWE also required for international applicants whose native language is not English.)

## Contact Information

For detailed information, contact the graduate program director, Dr. Amjad Javed, University of Alabama School of Dentistry, School of Dentistry Building, SDB 714, 1919 Seventh Avenue South, Birmingham, AL 35294-0007.

Telephone 205-934-5407  
 Fax 205-934-0208  
 E-mail [javeda@uab.edu](mailto:javeda@uab.edu)  
 Web [www.dental.uab.edu](http://www.dental.uab.edu)

## Master of Science with Emphasis in Oral Biology

The School of Dentistry in collaboration with the joint basic science Departments at The University of Alabama offers graduate studies leading to a Master of Science degree with emphasis in Oral Biology. The objective of the program is to relate basic biological sciences to health and disease of the oral cavity. This program is designed for individuals holding a D.D.S., D.M.D., or B.S. in Science (e.g. biology, chemistry etc) with little or no experience in basic research. This program will provide insight into dental academics and teaching in basic or applied research.

Students are required to pursue studies in oral biology and in the basic biological sciences. These studies include course work, seminars, journal club, and a laboratory component. Course work includes formal lectures from within the School of Dentistry and courses offered by the basic sciences departments, School of Public Health and the School of Medicine. The seminars and journal club include the "Dean's Seminar Series" and the Oral and Skeletal Biology Journal Club and other Research seminars within UAB. The Seminars cover a wide array of topics relevant to various research areas as well as other disciplines of dentistry or dental education. A significant portion of the program is devoted to the design and completion of a thesis research project in the form of one publishable paper in a reputable scientific journal which is a requirement of the program. Thesis research will be carried out under

the supervision of a faculty member. Faculty involved in the Master of Science program with emphasis in Oral Biology are actively engaged in research that represents a variety of oral and basic biomedical disciplines within the UAB. The diversity of the research interests offers opportunities for students to pursue studies in a stimulating research environment.

The program requires a **minimum of 30 graduate credits**. Of these, at least 24 credits must be selected from graduate-level courses approved for the program and a minimum of 6 credits at the master's research level. Each student must orally defend a master's thesis based on their research. If the applicant holds a D.D.S. or D.M.D. degree, the Master in Science may be combined with a clinical dental specialty training only after acceptance into the clinical program.

## Admission

Applicants must hold a B.S., D.D.S., or D.M.D., or an equivalent degree and should possess a cumulative grade-point average of at least 3.00 on a 4.00 scale. Standardized test such as GRE or DAT is required for all applicants. Students whose first language is not English must earn a score of 560 or better on the Test of English as a Foreign Language (TOEFL).

Applicants are asked to submit a statement describing past research experience and current research interests, and stating how completion of the Master in Science program fits into their career goals.

For International applicants; transcripts and all related material should be received no later than **February 28** to enroll in the fall semester of the same year.

For US applicants; transcripts and all related material should be received no later than **March 31** to enroll in the fall semester of the same year.

Financial assistance is not available. Students must show that they can support themselves.

## Contact

For further information and application materials, contact:

Jannet Katz, DDS, PhD  
Professor  
Department of Pediatric Dentistry  
University of Alabama School of Dentistry  
BBRB 713  
1720 2nd Avenue South  
Birmingham, AL 35294-2170  
Telephone: (205) 934-2878  
FAX: (205) 934-1426  
e-mail: meow@uab.edu

## M.S. in Dentistry

Requirements	Hours
OB 602 Pharmacology and Therapeutics for Dentistry or PG 502 Pharmacology and Therapeutics for Dentistry	3
CD 626 Surgical Implants in Dentistry or PG 527 Surgical Implants in Dentistry	3
CD 646 Multidisciplinary Seminars I or PG 753 Multidisciplinary Seminars I	3
CD 721 Oral & Skeletal Biology/Jour or PG 763 Oral & Skeletal Bio Journal	2
CD 722 Advanced Craniofacial Growth	3

or PG 608	Advanced Craniofacial Growth	
CD 727	Craniofacial Syndrome Series	3
or PG 709	Craniofacial Syndrome Series	
OB 620	Oral Microbiology and Immunology	3
or PG 569	Oral Microbiology & Immunology	
PG 583	Graduate Cariology	3
CD 717	Multidisciplinary Seminars II	3
or PG 609	Multidisciplinary Seminars II	
CD 640	Physical Diagnosis	3
or PG 511	Physical Diagnosis	
CD 689	Conscious Sedation	3
or PG 589	Conscious Sedation	
CD 697	Advanced Restorative Technique	3
or PG 797	Adv Restorative Technique	
OB 622	Biochemistry of Connective Tissue and Bone	3
or PG 546	Biochemistry of Connective Tissue and Bone	
CD 728	Advanced Oral Pathology	3
or PG 710	Advanced Oral Pathology	
OB 604	Clinical Applied Dent Material	3
or PG 758	Clin Applied Den Materials	
PG 525	Design and Analysis of Clinical Dental Research	3
or PG 758	Clin Applied Den Materials	
CD 667	Selected Topics in Anatomy of the Head and Neck	3
or PG 501	Selected Topics in Anatomy of the Head and Neck	
CD 639	Dental Management of Medically Compromised Patient	2
or PG 528	Dental Management of the Medically Compromised Patient	
CD 698	Master s Level Non-Thesis Research	6
or OB 699	Thesis Research	
CD 699	Master s Level Thesis Research	6
or OB 699	Thesis Research	

**Total Hours**

**64**

## DMD/PhD Program

Degree Offered:	DMD/PhD
Director:	Dr. Steve Filler
Phone:	(205) 934-3387
E-mail:	admissions@cs1.dental.uab.edu
Website:	http://dental.uab.edu/students/prospective-students/dmd-phd-program.html

## DMD/PhD Program

The UAB School of Dentistry DMD/PhD program prepares students for an exciting career in dental academics through an innovative integrated clinician scientist training program. Applicants interested in the DMD/PhD program must have completed an undergraduate degree program (BA or BS) that fulfills all requirements for both dental school and graduate school admissions.

Interested students need to contact Dr. Steve Filler, Director of Admissions, UAB-School of Dentistry at 205.934.3387 or by email at admissions@cs1.dental.uab.edu.

## Important Points:

1. DMD and PhD degrees will be awarded within the same year upon completion of all dental and graduate school requirements.

2. Duration of the program is 8 years; however students with strong prior research experience have completed the program in 7 years.
3. Students accepted into the DMD/PhD program that do not complete the PhD training program, are required to reapply to the School of Dentistry for admission as a traditional DMD candidate.

### To apply to the program, applicants must:

1. Contact Dr. Steve Filler at UAB School of Dentistry indicating intent to apply for the DMD/PhD program.
2. Submit a formal application to the UAB School of Dentistry through AADSAS as early as possible.
3. Submit an online application to the UAB Graduate School (<http://www.uab.edu/graduate/online-forms>) through one of the Biomedical Sciences Interdisciplinary Themes, Engineering (Biomedical or Materials), Public Health, or other graduate program.
4. Have successfully taken the Dental Aptitude Test (DAT).
5. Have completed all the recommended courses for both dental and graduate school admissions.
6. Have prior hands-on-research experience.

**Note:** Students must submit separate applications to the UAB School of Dentistry and the UAB Graduate School. The Graduate School application can be found on the Graduate School's website ([uab.edu/graduate](http://uab.edu/graduate)) by clicking the 'Apply Now' button. The UAB School of Dentistry participates in the American Association of Dental Schools Application Service (AADSAS). Students should initiate AADSAS applications as early as possible.

Applicants under consideration will be requested to file a supplemental DMD/PhD application. Applicants qualified for admission will be invited for a personal interview with the Admissions Committee.

Candidates will be evaluated based on their academic record, DAT scores, research accomplishments, publications, commitment to a research dental academic career, character, and personality traits indicating potential for success in a DMD/PhD program.

### Sequence of the DMD/PhD Program:

1. Students first enter the Graduate School and complete at least two years of coursework including graduate school qualification examinations and dissertation proposal defense maintaining at least a 3.0 GPA.
2. After research PhD candidacy with approval of the DMD/PhD Advisory Committee the student transitions into the DMD curriculum in lock step with a dental class from years 2-4.
3. DMD and PhD degrees are awarded within the same year upon completion of the degrees programs.

### Financial Support Opportunities:

Students enrolled in the DMD/PhD training program are eligible for funding through the School of Dentistry's NIDCR supported T-90 Dental Academic Research Training (DART) Program or an individual NIDCR supported F-30 Training Award. See details about these programs at the following links: DART Program (<http://dental.uab.edu/research/training-programs/dart/dental-academic-research-training-program.html>) and the NIDCR F-30 grant application (<http://grants.nih.gov/grants/guide/pa-files/PAR-08-119.html>.)

## School of Education

### General Information

UAB offers graduate programs that lead to teacher certification in a variety of K-12 teaching disciplines (Biology, Language Arts, Early Childhood Education, English as a Second Language, Kinesiology/Physical Education, etc.) School Counseling, and Instructional Leadership and non-certification programs such as Community Health, Clinical Mental Health Counseling, Marriage, Couples, and Family, and Kinesiology with an Exercise Physiology concentration. A complete listing and description of all graduate programs are described in the Department of Curriculum and Instruction and Department of Human Studies sections of the catalog. Most certification programs have both master's (MAEd) and a post-master's Education Specialist (Ed.S.) degree. Additionally, the School of Education offers doctoral programs in Early Childhood Education (PhD), Educational Leadership (EdD), Educational Studies in Diverse Populations (PhD), and Health Education/Health Promotion (PhD).

All certification programs in the School of Education are fully approved by the National Council for Accreditation of Teacher Education (NCATE). All teacher certification programs within the School of Education have been approved by the Alabama State Board of Education (ALSDE). The School Counseling and Clinical Mental Health concentrations have also been accredited by the Council for Accreditation of Counseling & Related Educational Programs (CACREP). The Music program is accredited by the National Association of Schools of Music. The Art program has been accredited by the National Association of Schools of Art and Design.

### Degrees and Certificates

Degrees are awarded by UAB in recognition of scholastic achievement and may be pursued for their own sake. However, employment in the public schools is governed not by the degree but by the professional certificate issued by the Alabama State Department of Education (ALSDE). Since many students in these programs are preparing for work in the public schools, the pursuit of a degree is usually coupled with pursuit of ALSDE certification. There is a rough correspondence between degree level and certification class, as follows:

Bachelor's|B| Master's|A| Specialist (post-master's)|AA|Doctoral|No Equivalent|

We emphasize that the admission and completion requirements for the degree and for the certificate are often significantly different. Furthermore, not all education students are pursuing teacher certification. Students seeking certification should verify requirements with an advisor or program director. Alabama State regulations governing certification change often; therefore, it is incumbent upon the student to seek advisement each term. Students should not register for any coursework without having first met with an advisor.

## Interdisciplinary Programs

### Ph.D. in Educational Studies in Diverse Populations (ESDP)

The Ph.D. in Educational Studies in Diverse Populations (ESDP) is to prepare professionals who can conduct research and lead innovation that enhances educational and life outcomes for diverse populations. This would include those who represent cultural or linguistic minorities,

those with exceptionalities (gifted and disabled), those from economically challenged (and especially high-poverty) backgrounds, those impacted by gender biases, and those with other relevant learning or behavioral differences. To accommodate the widest range of student research interest in diversity issues there are three concentrations. Metropolitan Education Studies, Pedagogical Studies for Diverse Populations, Health Disparities within Diverse Populations. This doctoral program is especially suited to preparing graduates with the research acumen needed to move easily into higher educational/postsecondary settings, P-12 central administration at the local, state, and national level, and leadership roles within school based settings, or non-academic positions within nonprofit organizations, specifically those with a research component. The minimum admission requirements are those of the UAB Graduate School. However, admission is highly selective, and most successful applicants have qualifications much higher than the minimum. Application packets must be complete in the Graduate School office before the applicant can be considered for the program.

## Contact Information

For detailed information please visit the program website (<https://www.uab.edu/education/home/ci/educational-studies-diverse-populations>), or contact Dr. Andrew McKnight (%20anmcknig@uab.edu) (Program Director), Dr. Tondra Loder-Jackson (%20tloderjackson@uab.edu) (Metropolitan Education Studies Concentration Advisor), Dr. Susan Spezzini (%20spezzini@uab.edu) (Pedagogical Studies for Diverse Populations Concentration Advisor), or Dr. Laura Forbes (%20lforbes@uab.edu) (Health Disparities within Diverse Populations Concentration Advisor).

## The Ph.D. in Health Education / Health Promotion

The Ph.D. in Health Education / Health Promotion (p. ) is a University of Alabama System degree jointly administered by three units: UAB School of Education, UAB School of Public Health, and UA College of Human Environmental Sciences. Students draw upon the expertise and resources of a diverse and highly qualified faculty. Graduates in the Ph.D. program develop advanced training to become leading researchers, clinicians and faculty in a variety of work settings such as universities, businesses, government agencies, and foundations. We strive to create a rigorous scholarly and supportive atmosphere for students to develop intellectually to acquire the knowledge, skills, and dispositions necessary to be highly competent and ethical health education professionals.

This program is designed to provide students with the coursework and practical experience to become leading researchers and practitioners in Health Education and Health Promotion. Course work includes a core of courses in advanced research and statistical methods, social and behavioral sciences, and the completion of a research internship and dissertation.

For more information regarding the Health Education/Health Promotion program, visit the Health Education/Health Promotion (p. ) Graduate Catalog page.

## Ph.D. Health Education/Health Promotion Program of Study

Students may enter the program with either a bachelor's or master's degree in health education, or a master's degree in a closely related health field. Prerequisite coursework includes Foundations of Health

Education, Health Education Planning and Evaluation, and Research Design and Statistics. These requirements may be corequisite components in the program.

Students entering the program with a master's degree may transfer appropriate coursework to this program; however, this will not reduce the number of courses required. Students will not be required to retake coursework already completed but may be required to complete prerequisites as part of their planned course of study.

A required review of student credentials prior to admission will identify strengths and needs. This review will provide students with a blueprint for their course of study and will be conducted by the program director and faculty advisor.

The PhD degree program will require students to complete a minimum of 75 credit hours: 45 hours of coursework, 12 hours of research internship, and 18 hours of dissertation research. Students will meet regularly with a faculty advisor to plan course enrollment. A minimum GPA of 3.50 is required.

**Research and Statistics Prerequisites:** Students are required to have completed the following courses (or equivalents) BEFORE enrolling in the Advanced Research and Statistical Methods Core. These are not included in the 75 hour degree total.

Requirements	Hours
EPR 594 Introduction to Educational Research Design	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EPR 608 Statistical Methods and Action Research & EPR 607 and Microcomputer Applications to Statistical Analysis	4
EPR 609 Statistical Methods and Research in Education: Intermediate	3
<b>Total Hours</b>	<b>13</b>

The specific components of the PhD program in health Education and Health Promotion are outlined below.

## Ph.D. through the School of Education

Requirements	Hours
<b>I. Health Education and Promotion CORE Courses</b>	
CHHS 731 Advanced Theoretic/Scientific Basis of Health Education & Health Promotion	3
CHHS 732 Planning and Administration of Health Education/Promotion Programs	3
CHHS 733 Evaluation of Health Education/Promotion Programs or HB 740 Advanced Health Program Evaluation Seminar	3
CHHS 734 Health Education Seminar I	1
CHHS 735 Health Education Seminar II	1
CHHS 736 Health Education Seminar III	1
<b>II. Advanced Research and Statistical Methods Core</b>	
EPI 610 Principles of Epidemiologic Research	
EPR 696 Qualitative Research: Inquiry and Analysis	
EPR 710 Computer Applications and Advanced Statistical Methods	
<b>Graduate Research Design</b> <sup>1</sup>	
EPR 695 Survey Methods in Educational Research or EPR 790 Mixed Methods Approaches in Action Research	
<b>III. 600+ level Coursework in the Social and Behavioral Sciences</b> <sup>2</sup>	<b>18</b>

<b>IV. Research Internship</b> <sup>3</sup>	12
<b>V. Dissertation</b>	18
CHHS 799 Dissertation Research	
<b>Total Hours</b>	<b>72</b>

- Choose one course that fits the needs of your dissertation, with the approval of an advisor. Two examples are listed, but other courses could apply.
- Selection of courses pre-approved by doctoral program advisor to build knowledge and skills in a cognate area, e.g. Health Disparities, Research, Global Health, Public Health Policy, Aging and Health, Disabilities and Health.
- Choose 12 hours of any variation from the following: CHHS 640 and CHHS 641, CHHS 691 and CHHS 692, CHHS 798,

## Comprehensive Examination

A written comprehensive examination is required of all candidates for the Ph.D. degree. Your preparation will include studying course content, core competencies for the profession, and related literature of the discipline. Prior to taking the exam, students must have completed their core course requirements. Students must register for a minimum of 3.0 hours of graduate work during the semester in which the comprehensive exam is taken.

The Comprehensive exam will be offered twice each year and is written and graded by the graduate faculty in the joint doctoral program. The examination will be a synthesis of the core coursework as well as core competencies in the field of Health Education and Health promotion. Grading of the comprehensive exam is done blinded, and by consensus. Students who fail to achieve passing scores will have one attempt to remediate within a calendar year. If a student fails a section for the second time, they will be dismissed from the program.

## Doctor of Philosophy in Educational Studies in Diverse Populations

Requirements	Hours
EDC 750 Critical Pedagogy for Diverse Populations	3
EDF 755 Educational Studies in Diverse Populations: Theory of Inquiry	3
EDF 765 Metropolitan Education Studies Proseminar	3
CHHS 742 Health Disparities in Diverse Populations	3
<b>Research Courses and Prerequisite</b>	<b>12</b>
EPR 609 Statistical Methods and Research in Education: Intermediate	
EPR 710 Computer Applications and Advanced Statistical Methods	
or EPR 792 Mixed Methods Approaches to Educational Research	
EPR 596 Introduction to Qualitative Methods in Educational Research	
EPR 696 Qualitative Research: Inquiry and Analysis	
<b>Total Hours</b>	<b>24</b>

## Concentration Courses

### 12-36 Credits

Once the prerequisite coursework has been satisfied, you will follow an interdisciplinary program of study in one of the three concentrations:

- Pedagogical Studies
- Metropolitan Education Studies
- Health Disparities

## Dissertation

### 24 Credits

- Dissertation Seminar: 3 credit hours
- Dissertation Research - (Prerequisite: Admission to candidacy). Note: one semester with at least 6 credit hours is required
- 9 credits of directed dissertation research or additional research courses specific to intended dissertation

## Curriculum and Instruction

Chair:	Dr. Tonya Perry
Phone:	(205) 934-7896
E-mail:	tperry@uab.edu
Website:	<a href="http://www.uab.edu/education/ci/">http://www.uab.edu/education/ci/</a>

Degree offered:	
Education, Early Childhood	Ph.D., Ed.S., M.A.Ed.
Education, Elementary	Ed.S., M.A.Ed.
Education, High School and Middle School	Ed.S., M.A.Ed.
Arts Education	M.A.Ed.
Arts Education with a Concentration in Music	M.A.Ed.
English as a Second Language	Ed.S., M.A.Ed.
Reading	M.A.Ed.
Special Education	Ed.S, M.A.Ed.
Teacher Leader	Ed.S.
School Psychometry	M.A.Ed.

## Program Contact Information

### Program Coordinator Contact Information (Room and Phone Number)

High School and Middle School Education: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357  
 English as a Second Language: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357

Arts Education: Dr. Susan Spezzini (spezzini@uab.edu) 100 (205) 934-8357

Special Education: Dr. (emfing@uab.edu) Robin Ennis 114 (205) 975-6152

(Certification) Early Childhood/Elementary Education: Dr. Jennifer Ponder (%20jponder@uab.edu) 121 (205) 975-6150

(Non-Certification) Early Childhood/Elementary Education: Traditional Masters and Ed.S. Dr. Kay Emfinger (%20emfing@uab.edu) 100 (205) 934-7003

Reading Education: Dr. Jennifer Summerlin (%20summerl@uab.edu) 110B (205) 996-3540

All Other Programs: Dr. Tonya Perry (%20tperry@uab.edu) 100 (205) 934-7896

## Graduate Programs

The M.A.Ed. and Ed.S. programs emphasize improving the teaching skills of the student and broadening the student's understanding of the field(s) of teaching specialization. Numerous teaching fields are available. All prospective students must apply for admission through the Graduate School.

The M.A.Ed. program requires a minimum of 30-32 semester hours of study, and the Ed.S. program requires at least an additional 30 semester hours. All programs require a written final examination or comprehensive electronic portfolio and a minimum GPA of 3.25 for master's degree and 3.50 for the Ed.S. An outline of the specific course requirements can be obtained from the following link: <http://www.uab.edu/education/student-services/general-information/checklists>. Admission requirements are located at the following link: <https://www.uab.edu/education/student-services/admission-requirements>.

The M.A.Ed. programs satisfy the academic requirements for the Alabama State Department of Education Class A Professional Certificate and an M.A.Ed. degree. The Ed.S. programs satisfy academic requirements for the Alabama State Department of Education Class AA Professional Certificate and an Ed.S. degree. See also the section "Education (General Information)" earlier in this catalog.

The program leading to the Doctor of Philosophy (Ph.D.) degree in early childhood education is sufficiently flexible to accommodate the interests and previous preparation of the student, but it must include an internship and a substantial research component culminating in the completion of a dissertation. The minimum admission requirements are those of the UAB Graduate School. However, admission is highly selective, and most successful applicants have qualifications much higher than the minimum. Admission is open with ongoing application considerations. Application packets must be complete in the Graduate School office before the applicant can be considered for the program.

## Contact Information

For detailed information, contact:

- Dr. Jennifer Ponder (Early Childhood, Elementary Education - Certification),
- Dr. Kay Emfinger (Early Childhood - Non-Certification),
- Dr. Robin Ennis (Special Education),
- Dr. Susan Spezzini (High School and Middle School Education, Arts Education, and English as a Second Language),
- Dr. Jennifer Summerlin (Reading Education)

UAB Department of Curriculum and Instruction, School Psychometry, EB 100, 1720 2nd Avenue South, Birmingham, Alabama 35294-1250. Dr. Stephanie Corcoran (205) 934-5371  
Web: [www.ed.uab.edu/ci](http://www.ed.uab.edu/ci)

## Arts Education

Our UAB Arts Education Program will prepare you for a career as a music or visual arts teacher in the P-12 schools. Our instructors are nationally and internationally renowned teacher educators, scholars, performers, and artists who are active in their respective fields. The UAB Department of Music has the distinction of being Alabama's first All Steinway School and offers courses such as music theory and basic and advanced conducting. The UAB Department of Art and Art History is accredited and nationally recognized by the National Association of Schools of Art and Design and has studio courses in ceramics, drawing, painting, new media, photography, graphic design, sculpture, and printmaking.

## Music Education

UAB's Graduate Music program consists of a Master of Arts degree in Arts Education with a Concentration in Music (Choral and Instrumental) and also an Alternative Master's degree in Arts Education with a Concentration in Music (Choral and Instrumental). The Arts Education with a Concentration in Music Program is housed in the Department of Curriculum and Instruction. This program's first purpose is to train educators in meeting the evolving needs of learners in grades P-12 within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. UAB's teacher education program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online alternating with face-to-face evenings)
- flexible summer programming
- totally online platforms
- Saturday classes

Prospective students should contact the Program Director, Dr. Susan Spezzini, at [spezzini@uab.edu](mailto:spezzini@uab.edu) (205-934-8357).

UAB Department of Music

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/student-services/admission-requirements>.

## Master of Arts in Education: Arts Education - Music Traditional Master's Program

The MA.Ed. requires a minimum of 34 hours for the Arts Education traditional master's program in Music Education with concentrations in Choral Music and Instrumental Music.

Requirements	Hours
<b>Music Ensemble (student's field)</b>	<b>2</b>
MUP 520 Concert Choir	
MUP 535 Wind Symphony	
MUP 536 Jazz Ensemble	
<b>Music Theory</b>	<b>3</b>
MU 545 Modal Counterpoint	

MU 548	Orchestration	
MU 555	Form and Analysis	
MU 558	Contemporary Techniques	
MU 629	Music Research	3
<b>Applied Music (student's field)</b>		<b>2</b>
MUP 540	Private Lessons: Voice	
MUP 550	Private Lessons: Piano	
MUP 561	Private Lessons: Flute	
MUP 562	Private Lessons: Oboe	
MUP 563	Private Lessons: Clarinet	
MUP 564	Private Lessons: Saxophone	
MUP 566	Private Lessons: Bassoon	
MUP 571	Private Lessons: Trumpet	
MUP 572	Private Lessons: French Horn	
MUP 573	Private Lessons: Trombone	
MUP 574	Private Lessons: Euphonium	
MUP 575	Private Lessons: Tuba	
MUP 580	Private Lessons: Percussion	
MUP 592	Private Lessons: Viola	
MUP 593	Private Lessons: Cello	
MUP 594	Private Lessons: Bass	
MUP 595	Private Lessons: Guitar	
MUP 591	Private Lessons: Violin	
<b>Music History</b>		<b>3</b>
MU 561	Music Literature Seminar	
MU 564	American Music	
MU 566	Music in World Cultures	
MU 521	Foundations of Graduate Study in Music	3
MU 531	Methods of Teaching Music	3
MU 615	Technology in Music Instruction	3
<b>ALSDE-approved Diversity Course</b>		<b>3</b>
EDF 600	Urban Education	
EDF 602	Critical Social Issues in American Education	
<b>Advisor-approved Elective</b>		<b>3</b>
EPR 688	Seminar on Current Issues: Measurement/Eval School	
500+ level Music Course		
600+ level Education Course		
ECY 600	Introduction to Exceptional Learner	3
<b>Choral or Instrumental Music Methods Course</b>		<b>3</b>
MU 562	Methods II: Choral Music	
MU 563	Methods II: Instrumental Music	
<b>Total Hours</b>		<b>34</b>

## Master of Arts in Education: Arts Education - Music Fifth Year Alternative Master's Program

The M.A.Ed. requires a minimum of 46 hours for the Arts Education Fifth Year Alternative Master's program in Music Education with concentrations in Choral Music and Instrumental Music. A minimum GPA of 3.25 is required.

Requirements	Hours	
MU 531	Methods of Teaching Music	3
EHS 597	Special Problems in Education	3
EDR 521	Reading in Context Areas	1
EDU 500	Education as a Profession	1

MU 521	Foundations of Graduate Study in Music	3
EPR 511	Measurement and Evaluation in Education Secondary Ed	3
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
EHS 690	Intern Seminar in Sec Edu	1
EMU 690	Internship in Music Education	6
MU 629	Music Research	3
MU 615	Technology in Music Instruction	3
<b>Music Theory (choose 3 hours)</b>		<b>3</b>
MU 545	Modal Counterpoint	
MU 548	Orchestration	
MU 555	Form and Analysis	
MU 558	Contemporary Techniques	
<b>Music History (choose 3 hours)</b>		<b>3</b>
MU 561	Music Literature Seminar	
MU 564	American Music	
MU 566	Music in World Cultures	
<b>Applied Music (student's field)</b>		<b>2</b>
MUP 540	Private Lessons: Voice	
MUP 550	Private Lessons: Piano	
MUP 561	Private Lessons: Flute	
MUP 562	Private Lessons: Oboe	
MUP 563	Private Lessons: Clarinet	
MUP 564	Private Lessons: Saxophone	
MUP 566	Private Lessons: Bassoon	
MUP 571	Private Lessons: Trumpet	
MUP 572	Private Lessons: French Horn	
MUP 573	Private Lessons: Trombone	
MUP 574	Private Lessons: Euphonium	
MUP 575	Private Lessons: Tuba	
MUP 580	Private Lessons: Percussion	
MUP 591	Private Lessons: Violin	
MUP 592	Private Lessons: Viola	
MUP 593	Private Lessons: Cello	
MUP 594	Private Lessons: Bass	
<b>Music Ensemble (student's field) choose 2 hours</b>		<b>2</b>
MUP 520	Concert Choir	
MUP 535	Wind Symphony	
MUP 536	Jazz Ensemble	
<b>Total Hours</b>		<b>40</b>

## A concentration is required

Requirements	Hours	
<b>Choral Concentration</b>		
MU 532	Methods I: Choral Music	3
MU 562	Methods II: Choral Music	3
<b>Total Hours</b>		<b>6</b>
<b>Requirements</b>		
<b>Instrumental</b>		
MU 533	Methods I: Instrumental Music	3
MU 563	Methods II: Instrumental Music	3
<b>Total Hours</b>		<b>6</b>

<sup>1</sup> May not be required if previously completed

## Arts Education - Visual Arts

UAB's Arts Education program is housed within the Department of Curriculum and Instruction. This program consists of a Master of Arts degree in Arts Education and also an alternative master's degree in Arts Education, both with a concentration on Visual Arts. The first purpose of this Arts Education program is to prepare educators in meeting the evolving needs of learners in grades P-12 within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. UAB's teacher education program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online alternating with face-to-face evenings)
- flexible summer programming
- totally online platforms
- Saturday classes

Prospective students should contact the Program Director, Dr. Susan Spezzini, at [spezzini@uab.edu](mailto:spezzini@uab.edu) (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Master of Arts in Education: Arts Education - Visual Arts Fifth Year Alternative Master's Program

The M.A.Ed. requires a minimum of 43 hours for the Arts Education Alternative Masters program with a concentration in Visual Arts.

Requirements	Hours
EDA 534 Methods I: Visual Arts	3
EDA 564 Methods II: Visual Arts	3
EHS 597 Special Problems in Education	3
EDR 551 Reading in Content Areas	3
EHS 556 Classroom Mgt in Sec Schools	3
EDU 500 Education as a Profession	1
EPR 511 Measurement and Evaluation in Education Secondary Ed	3
ECY 600 Introduction to Exceptional Learner	3
EDA 690 Internship in Art Education N-12	6
<b>Advisor-approved 500+ level Courses in Art Studio or Art History</b>	<b>12</b>
EHS 530 Practicum	1
EHS 570 Practicum II	1
EHS 690 Intern Seminar in Sec Edu	1
<b>Total Hours</b>	<b>43</b>

## Master of Arts in Education: Arts Education - Visual Arts Traditional Master's Program

The M.A.Ed. requires a minimum of 33 hours for the Arts Education program with a concentration in Visual Arts. A GPA of 3.25 is required.

Requirements	Hours
<b>Advisor-approved Art Courses (500+ level Studio Art or Art History)</b>	<b>12</b>
EDA 680 Advanced Methods: Visual Arts	3
EHS 651 Innovative Practices in Teaching in Secondary School	3
EDC 655 Curriculum Principles and Practices	3
EDC 706 The Dynamics of Educational Change	3
<b>ALSDE-approved Course in Diversity</b>	<b>3</b>
EDF 600 Urban Education	
EDF 602 Critical Social Issues in American Education	
Advisor-approved Elective in Diversity	
<b>Advisor-approved Elective</b>	<b>3</b>
EPR 688 Seminar on Current Issues: Measurement/Eval School	
600+ level Education course	
500+ level Studio Art or Art History course	
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> Not required if previously completed

## Early Childhood Education

UAB's Early Childhood Education program (M.A.Ed., Ed.S., Ph.D.) embodies a three-fold purpose. Its first purpose is to prepare educators in meeting the evolving needs of learners, primarily in grades P-6, within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares prospective and experienced educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from the learning management system (i.e. Canvas) with a variety of delivery formats:

- blended courses (online alternating with face-to-face)
- professional learning communities
- flexible summer programming
- internships and practicums
- totally online platforms
- Saturday classes

These purposes are expanded through the Ed.S. program. This advanced degree program infuses an inquiry-focused approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills and mentoring techniques for serving as reflective practitioners to guide change and positively impact student achievement and school improvement. Teachers with Class A certification can pursue Ed.S. level certification in elementary education or early childhood education. By then pursuing the Ph.D. program in early

childhood education, they can then explore relevant issues, theories, and practice at an even higher level.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Master of Arts in Education in Early Childhood Education

The Early Childhood Education Master of Arts in Education program requires a minimum of 33 hours. A minimum GPA of 3.25 is required.

Requirements	Hours
EDR 650 Teaching Reading P-12	3
EEC 660 Reading in Teaching and Learning	3
<b>Select two (2) courses from the list below:</b>	<b>6</b>
ECE 630 Cognitive Curriculum ECE	
EEC 540 Workshop in Education: Strategies for English Learners	
EEC 560 Current Issues in Education	
EEC 620 Teaching Mathematics N-6	
EEC 621 Teaching Language Arts P-12	
EEC 622 Teaching Social Studies N-6	
EEC 623 Teaching Science N-6	
EEC 678 Primary Mathematics: A Constructive Approach	
EDR 652 Pre and Early Reading Instruction	
EDR 653 Literature for Grades P-12	
EDR 655 Reading Assessment and Evaluation	
EDR 659 Research and Problems in Reading	
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EEC 610 Curriculum Development in ELEM and ECE	3
EEC 625 Critical Pedagogy Advocacy Collaboration	3
EEC 670 Studying the Child in School	3
<b>Select one (1) course from the list below:</b>	<b>3</b>
EEC 672 Piaget and Perspectives in Learning	
EPR 610 Child Psychology	
EPR 622 Learning Theories	
EEC 674 Language Development	
<b>Select one (1) course from the list below:</b>	<b>3</b>
ECT 625 Positive Behavioral Supports	
EEC 673 Teaching in Diverse Society	
EESL 620 Special Topics in ESL	
EDF 600 Urban Education	
EEC 691 Practicum in ECE/ELEM	3
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> May not be required if previously completed

## Master of Arts in Education in Early Childhood/Elementary Educational Alternative Master's (Fifth Year)

The M.A.ED. degree requires a minimum GPA of 3.25 for the Early Childhood/Elementary Education Alternative Master's (Fifth Year).

Requirements	Hours
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3

EEC 502 Primary Math Methods	3
EEC 505 Children's Literature in Elem. and Early Childhood	3
EEC 506 Language Arts in Elementary and Early Childhood Ed.	3
EEC 512 Math in EC and Elementary Educ	3
EEC 513 Science in EC and Elem Edu	3
EEC 514 Soc Studies in EC and Elem Edu	3
EEC 515 Learning Environments through Positive Behavior Support	3
EEC 540 Workshop in Education: Strategies for English Learners	1
<b>Field Work <sup>2</sup></b>	<b>2-8</b>
EEC 594 Field Work in Elementary and Early Childhood Education <sup>1</sup>	
EEC 600 Transition into P-6 Teaching	3
EEC 612 Models of Teaching	3
EEC 650 Systematic Reflections About Teaching	3
EEC 690 Internship in P-3/3-6	6
EDR 540 Developmental Reading I	3
EDR 543 Developmental Reading II	3
EDU 500 Education as a Profession	1
EPR 510 Measurement and Evaluation in Education ECE	3
<b>Total Hours</b>	<b>52-58</b>

<sup>1</sup> May not be required if previously completed

<sup>2</sup> Each semester a student enrolls in a pedagogy course (i.e., EDR 540, EDR 543, EEC 502, EEC 506, EEC 512, EEC 513, or EEC 514, EEC 540), he or she must also enroll for one hour of EEC 594

## Educational Specialist in Education with a concentration in Early Childhood Education

The Educational Specialist degree for the Early Childhood Education program requires a minimum of 33 hours.

Requirements	Hours
EDC 707 Introduction to Teacher Leadership	3
EDC 711 Analysis and Evaluation of Teaching	3
EDC 720 Problems and Issues in Education	3
EEC 692 Curriculum Projects	3
EEC 694 Field Study <sup>1</sup>	1-6
EEC 695 Practicum Supervision in ECE/ELE	2
EEC 660 Reading in Teaching and Learning	3
<b>Advisor-approved 600+ level Elective Courses</b>	<b>9</b>
ECY 600 Introduction to Exceptional Learner	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
<b>Total Hours</b>	<b>33-38</b>

<sup>1</sup> Students who have previously completed EEC 660 will complete four (4) hours of EEC 694 Field Study. Students who have not previously completed EEC 660, will complete one (1) hour of EEC 694 Field Study.

## Doctor of Philosophy in Early Childhood Education

As candidates may enter the Ph.D. program from a variety of early childhood related fields, there are a number of basic prerequisites

required for all applicants. If a Ph.D. applicant has completed most / all of the following coursework, they may enter the program and start their Ph.D. coursework the first semester. If Ph.D. applicants have not taken courses similar to the ones listed below, then the applicant can be accepted into the program and is expected to complete the majority of the prerequisite coursework prior to taking doctoral level classes.

Requirements	Hours
<b>Prerequisites</b>	
EPR 692 Introduction to Educational Research Design	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EPR 608 Statistical Methods and Action Research	3
EPR 609 Statistical Methods and Research in Education: Intermediate	3
EEC 610 Curriculum Development in ELEM and ECE	3
EEC 300 Child Development/Family Relationships	3-4
EEC 672 Piaget and Perspectives in Learning	3
EEC 660 Reading in Teaching and Learning	3

## PhD Coursework - Minimum of 54 hours

If all prerequisites are met, the Ph.D. is a minimum of 54 hours made up of core, specialty, research, and dissertation hours. Students may apply for candidacy after 36 hours, with up to 6 hours being non-dissertation research credits.

Requirements	Hours
ECE 730 Doctoral Seminar I: Issues in Development Theory	3
ECE 731 Doctoral Seminar II: Children and Society	3
ECE 749 Advanced Early Childhood Curriculum	3
<b>Select one course from the following:</b>	3
ECE 732 Dr III: History of Early Childhood Education	
ECE 735 Meaning and Development of Play	
ECE 737 Parent Child and School Interface	
ECE 748 Research in Infancy	
ECE 792 Directed Readings in Research	
<b>Specialty Area</b>	
12+ credit hours at the doctoral level. All coursework must be approved by the ECE doctoral committee.	12
<b>Research Methodology</b>	12
EPR 696 Qualitative Research: Inquiry and Analysis	
EPR 710 Computer Applications and Advanced Statistical Methods	
Qualitative, Quantitative, Mixed Method Track	
<b>Research Internship</b>	6
ECE 798 Non-Dissertation Research	
<b>Dissertation</b>	12
<b>Total Hours</b>	<b>54</b>

## Elementary Education

UAB's Elementary Education program (M.A.Ed., Ed.S.) embodies a three-fold purpose. Its first purpose is to train educators in meeting the evolving needs of learners, primarily in grades P-6, within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares prospective and experienced educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is

available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from the learning management system (i.e. Canvas) with a variety of delivery formats:

- blended courses (online alternating with face-to-face)
- professional learning communities
- flexible summer programming
- internships and practicums
- totally online platforms
- Saturday classes

These purposes are expanded through the Ed.S. program. This advanced degree program infuses an inquiry-focused approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills and mentoring techniques for serving as reflective practitioners to guide change and positively impact student achievement and school improvement. Teachers with Class A certification can pursue EdS-level certification in elementary education.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Master of Arts in Education in Elementary Education

The MAEd degree in Elementary Education requires a minimum of 33 hours.

Requirements	Hours
EDR 650 Teaching Reading P-12	3
EEC 660 Reading in Teaching and Learning	3
<b>Select two courses from the list below</b>	6
EEC 678 Primary Mathematics: A Constructive Approach	
ECE 630 Cognitive Curriculum ECE	
EEC 620 Teaching Mathematics N-6	
EEC 622 Teaching Social Studies N-6	
EEC 623 Teaching Science N-6	
EEC 621 Teaching Language Arts P-12	
EDR 652 Pre and Early Reading Instruction	
EDR 653 Literature for Grades P-12	
EDR 655 Reading Assessment and Evaluation	
EDR 659 Research and Problems in Reading	
EEC 560 Current Issues in Education or EEC 540 Workshop in Education: Strategies for English Learners	
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EEC 610 Curriculum Development in ELEM and ECE	3
EEC 625 Critical Pedagogy Advocacy Collaboration	3
EEC 670 Studying the Child in School	3
<b>Select one course from the list below</b>	3
EEC 672 Piaget and Perspectives in Learning	
EPR 610 Child Psychology	
EPR 622 Learning Theories	
EEC 674 Language Development	
<b>Select one course from the list below</b>	3
EESL 620 Special Topics in ESL	

EEC 673	Teaching in Diverse Society	
EDF 600	Urban Education	
ECT 625	Positive Behavioral Supports	
EEC 691	Practicum in ECE/ELEM	
<b>Total Hours</b>		<b>30</b>

## Educational Specialist in Education with a Concentration in Elementary Education

The Ed.S. in Education with a concentration in Elementary Education requires a minimum of 30 hours.

Requirements		Hours
EDC 707	Introduction to Teacher Leadership	3
EDC 711	Analysis and Evaluation of Teaching	3
EDC 720	Problems and Issues in Education	3
EEC 660	Reading in Teaching and Learning <sup>1</sup>	3
EEC 692	Curriculum Projects	3
EEC 694	Field Study <sup>1</sup>	1-6
EEC 695	Practicum Supervision in ECE/ELE	2
<b>Advisor-approved 600+ level Elective Courses</b>		<b>9</b>
ECY 600	Introduction to Exceptional Learner	3
EPR 596	Introduction to Qualitative Methods in Educational Research	3
<b>Total Hours</b>		<b>33-38</b>

<sup>1</sup> Students who have previously completed EEC 660 will complete four (4) hours of EEC 694 Field Study. Students who have not previously completed EEC 660, will complete one (1) hour of EEC 694 Field Study.

## English as a Second Language

UAB's graduate degree program in ESL is comprised of a master of arts (M.A.Ed.) degree in ESL and an Educational Specialist (Ed.S.) degree in Education. Both degrees prepare candidates to earn teacher certification in ESL from pre-school (P) through 12th grade. The M.A.Ed. also includes a non-certification track for teaching English as a Second or Foreign Language to adult learners.

UAB's MAEd/ESL embodies a three-fold purpose. Its first purpose is to train educators in meeting the needs of the growing population of English learners (ELs), both children and adults, in Alabama and abroad. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Its third purpose is to ensure that a quality MAEd/ESL program is available to teachers throughout the state. Accessible to educators all over Alabama, this MAEd/ESL program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online alternating with face-to-face)
- professional learning communities
- one-week summer teacher institutes
- flexible summer programming
- internships and practicums
- totally online platforms
- Saturday classes

These purposes are expanded and enhanced by the EdS program. It infuses an inquiry-focused approach that prepares teachers for assuming

leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills to serve as reflective practitioners in guiding school change as well as with mentoring techniques to positively impact student achievement and school improvement.

Prospective students should contact the Program Director, Dr. Susan Spezzini, at [spezzini@uab.edu](mailto:spezzini@uab.edu) (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/student-services/admission-requirements>.

## Master of Arts in Education in English as a Second Language Fifth Year Alternative Master's Program

The M.A.Ed in English as a Second Language degree for the fifth year alternative program requires a minimum of 44 hours for the concentration in ESL and 56 hours for the concentrations in ESL/Spanish and ESL/French. The minimum required GPA is 3.25.

Requirements		Hours
EESL 510	Second Language Acquisition	3
EESL 512	Curriculum, Program, Policies	3
EESL 513	Teaching ESL in a Multicultural Society	3
EESL 515	Grammar and Linguistics for ESL Teachers	3
EESL 525	Phonology for Second Language Teachers	3
EESL 530	Methods and Materials of Teaching ESL	3
EESL 540	Teaching New Languages Through Reading and Writing	3
EESL 560	Effective Teaching and Learning	3
EESL 589	Internship Seminar in ESL	1
EESL 590	Internship in Second and Foreign Languages, N-12	6
EDU 500	Education as a Profession	1
EHS 556	Classroom Mgt in Sec Schools	3
or EPR 511	Measurement and Evaluation in Education Secondary Ed	
EPR 510	Measurement and Evaluation in Education ECE	3
ECY 600	Introduction to Exceptional Learner	3
<b>Total Hours</b>		<b>41</b>

## ESL Concentration

Requirements		Hours
EEC 674	Language Development	3
<b>Total Hours</b>		<b>3</b>

## French and ESL Concentration

Requirements		Hours
EHS 539	Methods I: World Languages	3
Advisor-approved 500+ level courses in French		12
<b>Total Hours</b>		<b>15</b>

## Spanish and ESL Concentration

Requirements		Hours
EHS 539	Methods I: World Languages	3
Advisor-approved 500+ level courses in Spanish		12
<b>Total Hours</b>		<b>15</b>

## Master of Arts in Education in English as a Second Language Traditional Master's Program

The M.A.Ed in English as a Second Language degree for the traditional program requires a minimum of 36 hours for the concentration in ESL and 45 hours for the concentrations in ESL/Spanish and ESL/French. The minimum required GPA is 3.25.

Requirements	Hours
EESL 610 Second Language Acquisition	3
EESL 612 Curriculum, Programs and Policies	3
EESL 613 Teaching ESL in a Multicultural Society	3
EESL 615 Grammar and Linguistics for ESL Teachers	3
EESL 625 Phonology for Second Language Teachers	3
EESL 630 Methods and Materials of Teaching ESL	3
EESL 640 Teaching New Languages Through Reading and Writing	3
EESL 660 Effective Teaching and Learning	3
EESL 690 Internship in Second and Foreign Languages, P-12	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
<b>Total Hours</b>	<b>30</b>

## ESL Concentration

Requirements	Hours
EEC 674 Language Development	3
<b>Total Hours</b>	<b>3</b>

## French and ESL Concentration

Requirements	Hours
EHS 539 Methods I: World Languages	3
Advisor-approved 500+ level courses in French	12
<b>Total Hours</b>	<b>15</b>

## Spanish and ESL Concentration

Requirements	Hours
EHS 539 Methods I: World Languages	3
Advisor-approved 500+ level courses in Spanish	12
<b>Total Hours</b>	<b>15</b>

## Master of Arts in Education in English as a Second Language Non-Certification International/Adult Track

The M.A.Ed in English as a Second Language degree for the traditional program requires a minimum of 33 hours for the non-certification concentration in ESL and 45 hours for the concentrations in ESL/Spanish and ESL/French. The minimum required GPA is 3.25.

Requirements	Hours
EESL 007 Community English Teaching	0
EESL 607 Second Language Learning	3
or EESL 610 Second Language Acquisition	
EESL 615 Grammar and Linguistics for ESL Teachers	3
EESL 617 Teaching English in a Global Context	3
or EESL 613 Teaching ESL in a Multicultural Society	
EESL 625 Phonology for Second Language Teachers	3
EESL 627 Teaching Adult Language Learners	3

EESL 637 Methods Teaching English as an International Language	3
or EESL 630 Methods and Materials of Teaching ESL	
EESL 647 Instruction and Assessment: Reading and Writing	3
or EESL 640 Teaching New Languages Through Reading and Writing	
EESL 657 Instruction and Assessment: Listening and Speaking	3
EESL 677 Field Studies <sup>1</sup>	3
EESL 687 Practicum Seminar: English Language Teaching	3
EESL 697 ESL Practicum: Adult Learners	3
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> Only one hour for students who are Peace Corps Coverdell Fellows

## Educational Specialist in Education with a Concentration in English as a Second Language

The Ed.S. requires a minimum of 30 credit hours for the Education program with a concentration in English as a Second Language.

Requirements	Hours
EESL 647 Instruction and Assessment: Reading and Writing	3
EESL 657 Instruction and Assessment: Listening and Speaking	3
<b>ALSDE-approved Diversity Course</b>	<b>3</b>
EDC 732 Culturally and Linguistically Responsive Instruction	
EPR 700 Data Based Decision Making	3
EPR 700L Field Experience/Data Based Decision Making	1
EPR 700R School Based Problem Research Project/Data Based Decision	1
ECT 720 Universal Design for Lrn	3
ECT 720L Field Experience	1
ECT 720R Action Research	1
EDC 731 Curricular Design & Implementation	3
EDC 731L Field Experience	1
EDC 731R School-Based Problem Research: Curriculum Design Implementation	1
<b>EESL Electives</b>	<b>6</b>
EESL 617 Teaching English in a Global Context	
EESL 627 Teaching Adult Language Learners	
EESL 637 Methods Teaching English as an International Language	
EESL 677 Field Studies	
or EHS 692 Field Studies (Selected Educational Settings)	
EESL 687 Practicum Seminar: English Language Teaching	
EHS 681 Special Topics in Education	
Advisor-approved 500+ level EESL or related Courses	
<b>Total Hours</b>	<b>30</b>

## Reading

The Reading Education master's program (M.A.Ed.) prepares teachers to serve as reading specialists and to improve their classroom skills in teaching and coaching for reading. Reading candidates will receive in-depth knowledge of reading pedagogy and implementation during their program. The reading candidates participate in extensive work with children/students in diverse groupings and settings. A portfolio of professional development in reading is completed by the end of the program.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions

Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Reading Specialist Certification

The Graduate Non-Degree Reading Specialist Program requires a minimum of 36 credit hours.

Requirements	Hours
EEC 621 Teaching Language Arts P-12	3
EEC 660 Reading in Teaching and Learning	3
ECY 600 Introduction to Exceptional Learner	3
EDC 695 Coaching for Effective Instruction	3
EDR 551 Reading in Content Areas	3
EDR 650 Teaching Reading P-12	3
EDR 653 Literature for Grades P-12	3
EDR 654 Dyslexia Research, Education & Advocacy	3
EDR 655 Reading Assessment and Evaluation	3
EDR 659 Research and Problems in Reading	3
EDR 690 Internship in Reading	3
EESL 640 Teaching New Languages Through Reading and Writing	3
<b>Total Hours</b>	<b>36</b>

## Master of Arts in Education in Reading Education

The M.A.Ed. in Reading Education degree for the Reading Specialist program requires a minimum of 36 hours. A minimum GPA of 3.25 is required.

Requirements	Hours
EDC 695 Coaching for Effective Instruction	3
EEC 621 Teaching Language Arts P-12	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EDR 551 Reading in Content Areas	3
EDR 650 Teaching Reading P-12	3
EDR 653 Literature for Grades P-12	3
EDR 654 Dyslexia Research, Education & Advocacy	3
EDR 655 Reading Assessment and Evaluation	3
EDR 659 Research and Problems in Reading	3
EEC 660 Reading in Teaching and Learning	3
EDR 690 Internship in Reading	3
EESL 640 Teaching New Languages Through Reading and Writing	3
<b>Total Hours</b>	<b>36</b>

<sup>1</sup> Not required if previously completed

## Educational Specialist in Education with a Concentration in K-12 Collaborative Teacher in Reading

The Ed.S. in Education with a concentration in K-12 Collaborative Teacher in Reading program requires a minimum of 36 hours. A minimum GPA of 3.50 is required.

Requirements	Hours
EDR 650 Teaching Reading P-12	3
EDC 695 Coaching for Effective Instruction	3
EDR 655 Reading Assessment and Evaluation	3

EDR 659 Research and Problems in Reading	3
EDR 654 Dyslexia Research, Education & Advocacy	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EDR 690 Internship in Reading	3
<b>Total Hours</b>	<b>21</b>

## Track 1

Requirements	Hours
ECT 620 Formative and Summative Assessment	3
ECT 621 Program and Lesson Planning	3
ECT 623 Instructional Methods	3
ECT 625 Positive Behavioral Supports	3
ECT 631 Practicum in Collaborative Teaching K-12	3
<b>Total Hours</b>	<b>15</b>

## Track 2

Requirements	Hours
<b>Collaborative Problem Solving with Field Experience and Research Project</b>	
EDL 711 Collaborative Problem Solving	3
EDL 711L Collab Probl Solv: Fld Exper	1
EDL 711R School-Based Problem Research	1
<b>Data Based Decision Making with Field Experience and Research Project</b>	
EPR 700 Data Based Decision Making	3
EPR 700L Field Experience/Data Based Decision Making	1
EPR 700R School Based Problem Research Project/Data Based Decision	1
<b>Cultural and Linguistically Responsive Instruction with Field Experience and Research Project</b>	
EDC 732 Culturally and Linguistically Responsive Instruction	3
EDC 732L Field Experience for Culturally and Linguistically Responsive Instruction	1
EDC 732R School-Based Problem Research for CLD Responsive Instruction	1
<b>Total Hours</b>	<b>15</b>

<sup>1</sup> May not be required if previously completed

## School Psychometry

UAB's School Psychometry program (Class A certification or M.A.Ed.) embodies a three-fold purpose. Its first purpose is to prepare candidates to serve as a school psychometrist to assist in meeting the evolving needs of learners, in grades K-12, within today's rapidly changing society. Its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach. Based on constructivism, this approach prepares candidates to administer psychological services in the schools. These services include the conduction of psychoeducational assessment on students referred for special services. Its third purpose is to ensure that a quality program is available to candidates who may be unable to attend class during traditional class hours. This program is delivered through a totally online platform.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at [www.uab.edu/education/studentservices/admission-requirements](http://www.uab.edu/education/studentservices/admission-requirements).

Requirements	Hours
ECT 620 Formative and Summative Assessment	3
ECT 623 Instructional Methods	3
ECT 625 Positive Behavioral Supports	3
ECY 600 Introduction to Exceptional Learner	3
EDU 600 Education as a Profession	1
EPR 614 Lifespan Human Development	3
ESP 600 Seminar in School Psychomerty	3
ESP 627 Practicum in Schl Psychometry	1
ESP 628 Indiv Assess Child/Youth I	3
ESP 629 Indiv Assess Child/Youth II	3
ESP 689 Internship-School Psychometry	6
<b>Required Elective</b> <sup>1</sup>	<b>3</b>

<sup>1</sup> Advisor approved electives at the 500 or 600 level.

## School Psychometry Certification

The Graduate Non-Degree School Psychometry Certification Program requires a minimum of 34 credit hours.

Requirements	Hours
ECT 620 Formative and Summative Assessment	3
ECT 623 Instructional Methods	3
ECT 625 Positive Behavioral Supports	3
ECY 600 Introduction to Exceptional Learner	3
EPR 614 Lifespan Human Development	3
ESP 600 Seminar in School Psychomerty	3
ESP 627 Practicum in Schl Psychometry	1
ESP 628 Indiv Assess Child/Youth I	3
ESP 629 Indiv Assess Child/Youth II	3
ESP 689 Internship-School Psychometry	3-9
Advisor-approved Elective at the 500+ level	3
<b>Total Hours</b>	<b>31-37</b>

Program Requirements here

## Master of Arts in Education in School Psychometry

The M.A.Ed. School Psychometry Program requires a minimum of 31 credit hours.

Requirements	Hours
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
ESP 600 Seminar in School Psychomerty	3
ECT 620 Formative and Summative Assessment	3
ECT 623 Instructional Methods	3
EPR 614 Lifespan Human Development	3
ECT 625 Positive Behavioral Supports	3
ESP 627 Practicum in Schl Psychometry	1
ESP 628 Indiv Assess Child/Youth I	3
ESP 629 Indiv Assess Child/Youth II	3
ESP 689 Internship-School Psychometry	3-9
Advisor-approved Elective at the 500+ level	3
<b>Total Hours</b>	<b>31-37</b>

<sup>1</sup> May not be required if previously completed

## High School Education

UAB's High School Education program prepares pre-service and in-service teachers for teaching in both Middle School and High School. This secondary education program offers the following graduate degrees: Master of Arts in Education (MAEd) and Educational Specialist (Ed.S.).

UAB's High School Education program embodies a three-fold purpose. Its first purpose is to prepare educators in meeting the evolving needs of learners, primarily in grades 6-12, within today's rapidly changing society. Based on constructivism, its second purpose is to deliver cutting-edge instruction through a standards-based, inquiry-focused approach that prepares educators to use state-of-the-art instructional strategies in their own classrooms. Its third purpose is to ensure that a quality program is available to pre-service and in-service teachers who may be unable to attend class during traditional class hours. This program is unique in how it combines online support from Canvas with a variety of delivery formats:

- blended courses (online & face-to-face evenings)
- professional learning communities
- flexible summer programming
- totally online platforms
- Saturday classes

These purposes are expanded and enhanced by the Ed.S. program. This advanced degree offers standards-based concentrations within discipline areas. It infuses an inquiry-focused teacher leader approach that prepares teachers for assuming leadership roles in curriculum development and instructional delivery. It also provides experienced teachers with collaborative skills to serve as reflective practitioners in guiding school change as well as with mentoring techniques to positively impact student achievement and school improvement.

Prospective students should contact the Program Director, Dr. Susan Spezzini, at [spezzini@uab.edu](mailto:spezzini@uab.edu) (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/student-services/admission-requirements>.

## Master of Arts in Education in High School Education Traditional Master's Program

The M.A.Ed. degree requires a minimum of 33 credit hours for the High School Education program (i.e., Secondary Education) with concentrations in Biology, Chemistry, General Science, Mathematics, Physics, English Language Arts, General Social Science, and History. A minimum GPA of 3.25 is required.

Requirements	Hours
<b>All Concentrations</b>	
EHS 651 Innovative Practices in Teaching in Secondary School	3
EDC 655 Curriculum Principles and Practices	3
EDC 706 The Dynamics of Educational Change	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
<b>ALSDE-approved Diversity course</b>	
EDF 600 Urban Education	
EDF 602 Critical Social Issues in American Education	
Advisor-approved Elective in Diversity	

<b>Advisor-approved Elective</b>		<b>3</b>
EPR 688	Seminar on Current Issues: Measurement/Eval School	
600+ level Education course		
500+ level course in Teaching Field		
<b>Total Hours</b>		<b>18</b>

<sup>1</sup> May not be required if previously completed

## Concentration in Biology, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Biology courses at 500+ level	12	
EHS 615	Advanced Methods: Science, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in Chemistry, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Chemistry courses at 500+ level	12	
EHS 615	Advanced Methods: Science, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in General Science, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Science courses at 500+ level	12	
EHS 615	Advanced Methods: Science, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in Mathematics, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Mathematics courses at 500+ level	12	
EHS 616	Advanced Methods: Mathematics, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in Physics, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Physics courses at 500+ level	12	
EHS 615	Advanced Methods: Science, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in English Language Arts, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved courses at the 500+ level in English and another ELA field	12	
EHS 612	Advanced Methods: English Language Arts, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in General Social Science, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved courses at the 500+ level in 2 or more Social Science disciplines	12	
EHS 614	Advanced Methods: Social Sciences, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Concentration in History, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved History courses at the 500+ level	12	
EHS 614	Advanced Methods: Social Sciences, 6-14	3
<b>Total Hours</b>	<b>15</b>	

## Master of Art in Education in High School Education Fifth Year Alternative Master's Program

The M.A.Ed. degree requires a minimum of 43 credit hours for the Fifth Year Alternative Master's program in High School Education (i.e., Secondary Education) with concentrations in Biology, Chemistry, General Science, Mathematics, Physics, English Language Arts, General Social Science, and History. A minimum GPA of 3.25 is required.

<b>Requirements</b>	<b>Hours</b>	
<b>All Concentrations</b>		
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
EDR 551	Reading in Content Areas	3
EDU 500	Education as a Profession	1
EHS 530	Practicum	1
EHS 556	Classroom Mgt in Sec Schools	3
EHS 570	Practicum II	1
EHS 597	Special Problems in Education	3
EHS 690	Intern Seminar in Sec Edu	1
EHS 691	Secondary School Internship	6
EPR 511	Measurement and Evaluation in Education Secondary Ed	3
<b>Total Hours</b>	<b>25</b>	

<sup>1</sup> May not be required if previously completed

## Concentration in Biology, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Biology courses at the 500+ level	12	
EHS 537	Methods I: Science, 6-12	3
EHS 567	Methods II: Science, 6-12	3
<b>Total Hours</b>	<b>18</b>	

## Concentration in Chemistry, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved Chemistry courses at the 500+ level	12	
EHS 537	Methods I: Science, 6-12	3
EHS 567	Methods II: Science, 6-12	3
<b>Total Hours</b>	<b>18</b>	

## Concentration in General Science, 6-12

<b>Requirements</b>	<b>Hours</b>	
Advisor-approved 500+ level courses in two (2) Science Disciplines	12	
EHS 537	Methods I: Science, 6-12	3
EHS 567	Methods II: Science, 6-12	3
<b>Total Hours</b>	<b>18</b>	

## Concentration in Mathematics, 6-12

Requirements	Hours
Advisor-approved Mathematics courses at 500+ level	12
EHS 535 Methods I Mathematics 6-12	3
EHS 565 Methods II: Mathematics, 6-12	3
<b>Total Hours</b>	<b>18</b>

## Concentration in Physics, 6-12

Requirements	Hours
Advisor-approved Physics at 500+ level	12
EHS 537 Methods I: Science, 6-12	3
EHS 567 Methods II: Science, 6-12	3
<b>Total Hours</b>	<b>18</b>

## Concentration in English Language Arts, 6-12

Requirements	Hours
Advisor-approved at the 500+ level in English and another ELA field	12
EHS 536 Methods I: English Language Arts, 6-12	3
EHS 566 Methods II: English Language Arts, 6-12	3
<b>Total Hours</b>	<b>18</b>

## Concentration in General Social Science, 6-12

Requirements	Hours
Advisor-approved Courses in 2 or more 500+ level Social Science Disciplines	12
EHS 538 Methods I: Social Science, 6-12	3
EHS 568 Methods II: Social Science, 6-12	3
<b>Total Hours</b>	<b>18</b>

## Concentration in History, 6-12

Requirements	Hours
Advisor-approved History courses at the 500+ level	12
EHS 538 Methods I: Social Science, 6-12	3
EHS 568 Methods II: Social Science, 6-12	3
<b>Total Hours</b>	<b>18</b>

## Master of Arts in Education High School Education Concentrations in French and Spanish Traditional Master's Program

The M.A.Ed. degree requires a minimum of 33 credit hours for the Traditional Master's program in High School Education (i.e., Secondary Education) with concentrations in French and Spanish. A minimum GPA of 3.25 is required.

Requirements	Hours
EESL 610 Second Language Acquisition	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EHS 611 Advanced Methods: World Languages	3
EESL 625 Phonology for Second Language Teachers	3
EESL 640 Teaching New Languages Through Reading and Writing	3
Advisor-approved 500+ level French/Spanish or 600+ level Education course	3

<sup>1</sup> May not be required if previously completed

## Concentration in French

Requirements	Hours
Advisor-approved 500+level French courses	12
Practicum or Field Experience	3
FR 590 Study Abroad	
FR 599 Individual Studies	
EEC 694 Field Study	
EHS 692 Field Studies (Selected Educational Settings)	
<b>Total Hours</b>	<b>15</b>

## Concentration in Spanish

Requirements	Hours
Advisor-approved 500+level Spanish courses	12
Practicum or Field Experience	3
SPA 590 Study Abroad	
SPA 599 Independent Studies	
EEC 694 Field Study	
EHS 692 Field Studies (Selected Educational Settings)	
<b>Total Hours</b>	<b>15</b>

## Master of Arts in Education High School Education with Concentrations in French and Spanish Fifth Year Alternative Master's Program

The M.A.Ed. degree requires a minimum of 44 credit hours for the Fifth Year Alternative Master's program in High School Education (i.e., Secondary Education) with concentrations in French and Spanish. A minimum GPA of 3.25 is required.

Requirements	Hours
EHS 539 Methods I: World Languages	3
EHS 569 Methods II: World Languages	3
EHS 597 Special Problems in Education	3
or EESL 513 Teaching ESL in a Multicultural Society	
EESL 540 Teaching New Languages Through Reading and Writing	3
EDU 500 Education as a Profession	1
EHS 556 Classroom Mgt in Sec Schools	3
EPR 510 Measurement and Evaluation in Education ECE	3
or EPR 511 Measurement and Evaluation in Education Secondary Ed	
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EHS 690 Intern Seminar in Sec Edu	1
EESL 510 Second Language Acquisition	3
<b>Total Hours</b>	<b>26</b>

<sup>1</sup> May not be required if previously completed

## Concentration in French

Requirements	Hours
French courses at the 500+ level	12
EFL 691 N-12 Foreign Language Internship	6
<b>Total Hours</b>	<b>18</b>

## Concentration in Spanish

Requirements	Hours
Spanish courses at the 500+ level	12
EFL 691 N-12 Foreign Language Internship	6
<b>Total Hours</b>	<b>18</b>

## Educational Specialist in High School Education - Traditional Master's Program

The Ed.S. degree requires a minimum of 33 credit hours for the High School Education program (i.e., Secondary Education) with concentrations in Biology, Chemistry, General Science, Mathematics, Physics, English Language Arts, General Social Science, and History. A minimum GPA of 3.25 is required.

Requirements	Hours
<b>All Concentrations</b>	
EDC 707 Introduction to Teacher Leadership	3
EDC 711 Analysis and Evaluation of Teaching	3
EDC 720 Problems and Issues in Education	3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EHS 720 Individual Research in Education	3
or EHS 680 National Board Seminar for Secondary Education	3
<b>Advisor-approved Elective</b>	
EHS 681 Special Topics in Education	3
600+ level Education course	
500+ level course in Teaching Field	
<b>Total Hours</b>	<b>21</b>

<sup>1</sup> May not be required if previously completed

## Concentration in Biology, 6-12

Requirements	Hours
Advisor-approved Biology courses at 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Concentration in Chemistry, 6-12

Requirements	Hours
Advisor-approved Chemistry courses at 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Concentration in General Science, 6-12

Requirements	Hours
Advisor-approved Science courses at 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Concentration in Mathematics, 6-12

Requirements	Hours
Advisor-approved Mathematics courses at 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Concentration in Physics, 6-12

Requirements	Hours
Advisor-approved Physics courses at 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Concentration in English Language Arts, 6-12

Requirements	Hours
Advisor-approved courses at the 500+ level in English and another ELA field	12
<b>Total Hours</b>	<b>12</b>

## Concentration in General Social Science, 6-12

Requirements	Hours
Advisor-approved courses at the 500+ level in 2 or more Social Science disciplines	12
<b>Total Hours</b>	<b>12</b>

## Concentration in History, 6-12

Requirements	Hours
Advisor-approved History courses at the 500+ level	12
<b>Total Hours</b>	<b>12</b>

## Special Education

Welcome to UAB where students become skilled, reflective educators through Special Education graduate degree programs in Collaborative Teacher (CT) K-12, Early Childhood Special Education (ECSE), and Visual Impairment (VI). These innovative program offer degrees and/or certification at three levels—alternative masters, traditional masters and specialist.

The alternative masters program (AMP) is for graduate students who do not already hold teacher certification in elementary or early childhood education. To be eligible for seeking initial teacher certification at a masters level, applicants must have an undergraduate degree with a 2.75 GPA on their transcript from a regionally accredited college. They must have passed the Basic Skills test and the Praxis II exam in the targeted teaching field and also met other criteria stipulated by the ALSDE. Upon completing the AMP, candidates earn alternative Class A certification in this teaching field.

The traditional masters program (MAE) is for teachers who already hold Class B initial certification in any area of education. Upon completing the MAE, they earn Class A certification in the special education teaching field.

The Collaborative Teacher Autism Spectrum Disorders Educational Specialist (EdS) degree program is for teachers who already hold either an Alabama Class B or Class A certificate in any field of special education OR have at least 3 years of verified, full-time teaching experience with special populations and hold a valid Class A Professional Educator Certificate.

The Collaborative Teacher: Concentration in Reading Educational Specialist (EDS) degree program is for teachers who already hold either an Alabama Class B or Class A certificate in any field of special education OR general education who have at least 2 years of verified, full-time teaching experience with special populations or general

populations and hold a valid Class A Professional Educator Certificate. Individuals pursuing this certificate/degree must complete one of two tracks in this program. The track selected depends upon the type of valid, prerequisite Alabama professional educator certificate held PRIOR to unconditional admission to the Class AA Program in Collaborative Teacher. Track 1 is for candidates who DO NOT currently hold a valid Alabama Class A Certificate in Collaborative Teacher. Candidates who must take this track of courses are those with a valid, prerequisite Alabama Class A Professional Educator Certificate in any teaching field (other than Collaborative Teacher). To be eligible to pursue Track 2 courses, candidates MUST hold a valid, prerequisite Alabama Class A Professional Educator Certificate in Collaborative Teacher.

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Master of Arts in Special Education Collaborative Teacher K-12

The MA.Ed. in Special Education degree for the Collaborative Teacher K-12 program requires a minimum of 33 hours. A minimum GPA of 3.25 is required.

Requirements	Hours	
ECT 620	Formative and Summative Assessment	3
ECT 621	Program and Lesson Planning	3
ECT 622	Language and Communication Facilitation	3
ECT 623	Instructional Methods	3
ECT 624	Sensory, Health and Physical Methods	3
ECT 625	Positive Behavioral Supports	3
ECT 626	Assistive and Instructional Technology	3
ECT 627	Collaborative Processes	3
ECT 628	Legal Issues and Trends	3
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
ECT 631	Practicum in Collaborative Teaching K-12	3
<b>Total Hours</b>		<b>33</b>

<sup>1</sup> May not be required if previously completed

## Master of Arts in Special Education Collaborative Teacher K-12 Fifth Year Alternative Masters

The MA.Ed. in Special Education degree for the Collaborative Teacher K-12 Fifth Year Alternative Masters program requires a minimum of 44 hours. A minimum GPA of 3.25 is required.

Requirements	Hours	
ECT 521	Program and Lesson Planning	3
ECT 523	Instructional Methods	3
ECT 529	Teaching Literacy and Reading in Inclusive Settings	3
ECT 528	Legal Issues and Trends	3
ECT 520	Formative and Summative Assessment	3
ECY 600	Introduction to Exceptional Learner	3
ECT 531	Internship in Collaborative Teaching K-12	6
ECT 532	Student Teaching Seminar	1
EDU 500	Education as a Profession	1
ECT 522	Language and Communication Facilitation	3

ECT 524	Sensory, Health and Physical Methods	3
ECT 525	Positive Behavioral Supports	3
ECT 526	Assistive and Instructional Technology	3
ECT 527	Collaborative Processes	3
ECT 530	Effective Teaching and Learning	3
<b>Total Hours</b>		<b>44</b>

<sup>1</sup> May not be required if previously completed

## Master of Arts in Early Childhood Special Education

The MA.Ed. degree in Early Childhood Special Education program requires a minimum of 39 hours. A minimum GPA of 3.25 is required.

Requirements	Hours	
ECY 635	Foundations of Early Childhood Special Education	3
ECY 637	Assessment in Early Childhood Special Education	3
ECT 621	Program and Lesson Planning	3
ECY 636	Early Intervention and Preschool Curriculum and Methods	3
ECT 655	Early Primary Curriculum and Methods	3
ECT 625	Positive Behavioral Supports	3
ECT 654	Communication and Technology Applications In Early Childhood Special Education	3
ECT 627	Collaborative Processes	3
ECY 639	Transdisciplinary Collaboration and Consultation in Early Childhood	3
ECY 689	Advanced Topics in Special Education	1-6
EDR 652	Pre and Early Reading Instruction	3
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
ECY 670	Practicum in Early Childhood Special Education	6
<b>Total Hours</b>		<b>40-45</b>

<sup>1</sup> May not be required if previously completed

## Master of Arts in Education in Special Education Visual Impairment P-12 Fifth Year Alternative Masters

The M.A.Ed. degree requires a minimum of 50 hours for the Special Education Alternative Master's for the Visual Impairment P-12 program. A minimum GPA of 3.25 is required.

Requirements	Hours	
ECT 521	Program and Lesson Planning	3
ECT 523	Instructional Methods	3
ECY 662	Meth and Material for Teaching the Visually Impaired	3
EDR 540	Developmental Reading I	3
ECT 527	Collaborative Processes	3
ECT 520	Formative and Summative Assessment	3
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
ECY 687	Early Childhood/Elementary School Student Teaching	6
ECT 532	Student Teaching Seminar	1
EDU 500	Education as a Profession	1
ECT 522	Language and Communication Facilitation	3
ECT 524	Sensory, Health and Physical Methods	3
ECT 525	Positive Behavioral Supports	3

ECT 526	Assistive and Instructional Technology	3
ECY 664	Braille, Orientation and Mobility	3
ECY 665	Anatomy and Educational Implication of the Eye	3
<b>Advisor-approved EDF Elective (500 level or above)</b>		3
<b>Total Hours</b>		<b>50</b>

<sup>1</sup> May not be required if previously completed

## Master of Arts in Education in Special Education Visual Impairment P-12

The M.A.Ed. degree requires a minimum of 39 hours for the Special Education for the Visual Impairment P-12 program. A minimum GPA of 3.25 is required.

Requirements	Hours	
ECT 620	Formative and Summative Assessment	3
ECT 621	Program and Lesson Planning	3
ECT 622	Language and Communication Facilitation	3
ECT 623	Instructional Methods	3
ECT 624	Sensory, Health and Physical Methods	3
ECT 625	Positive Behavioral Supports	3
ECT 626	Assistive and Instructional Technology	3
ECT 627	Collaborative Processes	3
ECY 662	Meth and Material for Teaching the Visually Impaired	3
ECY 664	Braille, Orientation and Mobility	3
ECY 665	Anatomy and Educational Implication of the Eye	3
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
ECY 686	Practicum In Special Education: Visually Impaired	3-6
<b>Total Hours</b>		<b>39-42</b>

<sup>1</sup> May not be required if previously completed

## Educational Specialist in Education with a Concentration in Collaborative Special Education K-12: Autism Spectrum Disorder

The Ed.S. degree for the Collaborative Special Education K-12: Autism Spectrum Disorder program requires a minimum of 36 hours. A minimum GPA of 3.50 is required.

Requirements	Hours	
ECT 700	ASD: An Introduction	3
ECT 701	ASD: App of Assessment Inform	3
ECT 702	ASD: Tech and Comm Supp	3
ECT 703	ASD: Literacy and Instructional Content and Methods	3
ECT 704	ASD: Collaboration-Consultation	3
ECT 705	ASD: Accommodating the Needs of Diverse Learners on the Spectrum	2
ECY 600	Introduction to Exceptional Learner <sup>1</sup>	3
ECT 710	ASD: Practicum	3
<b>Data Based Decision Making with Field Experience and Research Project</b>		
EPR 700	Data Based Decision Making	3
EPR 700L	Field Experience/Data Based Decision Making	1
EPR 700R	School Based Problem Research Project/Data Based Decision	1

### Professional Leadership with Field Experience and Research Project

EDL 735	Professional Leadership	3
EDL 735L	Field Experience/Professional Leadership	1
EDL 735R	School Based Problem Research Project/Professional Leadership	1
ECT 679	Advanced Legal Aspects of Special Education	3
<b>Total Hours</b>		<b>36</b>

<sup>1</sup> May not be required if previously completed

## Teacher Leader

The Ed.S. program in Teacher Leadership provides teachers with an avenue for career enhancement and advancement. This program prepares teachers for serving as professional development facilitators, instructional coaches, lead teachers, department chairs, curriculum coordinators, and program area specialists.

Through the standards-based approach of UAB's Ed.S. Teacher Leader program, teachers learn state-of-the-art instructional strategies for meeting the evolving needs of diverse learners within today's rapidly changing society. They acquire collaborative skills to serve as reflective practitioners and dynamic leaders in guiding school change and effectiveness. They also learn mentoring techniques for positively impacting student achievement and school improvement. At UAB, the Teacher Leader program was designed with an executive delivery model. As such, it is accessible to teachers who live at a distance from UAB and also to those who prefer to take courses in non-traditional delivery formats. Courses are delivered through blended instruction (face-to-face alternating with online) and totally online platforms as well as through professional learning communities. This 30-hour program contains six 5-hour modules. Each of these modules consists of a 3-hour content course, a 1-hour research course (R), and a 1-hour field experience course (L). Teachers concentrate on one academic focus per term by taking one module at a time. Moreover, by enrolling in 5 graduate credit hours per term, they are eligible for financial aid during each of the program's 6 semesters. The EdS Teacher Leader program has a rolling admission, and students can start any semester.

For additional information about the Ed.S. Teacher Leader program, please contact Dr. Susan Spezzini, Program Director, at [spezzini@uab.edu](mailto:spezzini@uab.edu) (205-934-8357).

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

## Human Studies

### Program Contact Information

Program	Coordinator	Room	Phone Number
Counselor Education	Dr. Dayna Watson	152	(205) 934-2005
Educational Leadership	Dr. Keith Gurley	206	(205) 975-1983
Community Health and Human Services	Dr. Laura Forbes	210	(205) 975-5368

Kinesiology - Teacher Certification	Dr. Sandra Sims	224	(205) 996-2721
Kinesiology - Exercise Physiology	Dr. Eric Plaisance	257	(205) 996-7909
Research	Dr. Jenna LaChenaye	215	(205) 934-2357
Foundations	Dr. Tondra Loder-Jackson	219	(205) 934-8304

## Educational Foundations

The Educational Foundations (EDF) Program examines how educational institutions shape and are shaped by the social and cultural structures within our society. Our mission is to offer a program that examines current teaching contexts and practice, research, and theory with the aim of increasing our professional candidates' knowledge and understanding of the socio-cultural, historical, political, and economic factors, as well as the philosophical underpinnings, that influence education and shape the societies and world in which we live. Within a diverse world, we also believe that professional educators should recognize a profound need to intentionally learn about and incorporate their students' personal experiences, cultures, and community resources into their instruction and programs. It is through our courses that students come to encounter, interrogate, better understand, and embrace the increasingly diverse landscape of our society and P-12 students.

## Educational Psychology and Research

At the undergraduate level, the Educational, Psychology and Research Program (EPR) provides courses in psychological foundations and measurement and evaluation that are necessary for all prospective teachers to complete who are pursuing an undergraduate teaching degree. We also house the undergraduate Introduction to Statistics that serves the Community Health and Human Services and Kinesiology programs and concentrations.

At the graduate level, we provide educational psychology courses that meet the program requirements for graduate teacher certification programs as well as courses taken for recertification and other Masters, Educational Specialists, and doctoral programs within and outside of the School of Education. These courses also attract graduate students from programs outside the School of Education such as Nursing, Public Health, and the School of Health Professions.

## Counselor Education

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

### Overview

The program in Counselor Education at the University of Alabama at Birmingham offers concentrations in Clinical Mental Health; Marriage, Couples, and Family; and School Counseling at the Master's level. At the master's level students acquire core knowledge and clinical skills, which enable them to enter the profession of counseling.

All counseling concentrations (Clinical Mental Health; Marriage, Couples, and Family; and School Counseling) are designed to meet the course-

work and field experiences requirements for professional licensure in the State of Alabama. A 15-credit Marriage, Couples, and Family certificate is offered to provide additional coursework for mental health and school counselors who would like to broaden their clinical expertise and knowledge in Marriage, Couples, and Family counseling. The School Counseling Concentration meets the course work and field experiences required by the Alabama State Department of Education for certification.

The Counselor Education program at the University of Alabama at Birmingham is accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP). The accreditation is through January 15, 2018. The Clinical Mental Health Counseling concentration, a 61 hour program, is currently accredited under the 2001 standards for Community Counseling programs as a Community Counseling program. The CACREP 2009 standards combine the Community Counseling and Mental Health Counseling standards into standards for Clinical Mental Health Counseling programs. The counseling program intends to seek accreditation for this program as a Clinical Mental Health Counseling program when it comes up for reaccreditation, per CACREP guidelines. The counseling program also intends to seek CACREP accreditation for the Marriage, Couples, and Family program in the next reaccreditation process.

## Admission Process

Consideration for admission to graduate study in Counselor Education will occur in the fall and spring semesters. The completed application packet must be received by the Counselor Education Program from the Graduate School by the dates shown:

Entry Term	Deadline
Fall	March 1
Spring	September 1

Admission to graduate study in Counselor Education is initiated through the Graduate School and all required materials are to be submitted per specified instructions delineated by the Graduate School.

Each applicant seeking admission to a Counselor Education program concentration must include with the other required materials, a typewritten statement of professional purpose that reflects the applicant's background, development, pertinent work-related experience, professional career objectives and specified ways that completion of this program will contribute to his/her goal for becoming a professional counselor. Applicants to the school counseling concentration who do not already hold a teaching certificate in the state of Alabama must complete fingerprinting and a background check as part of their application.

## Standardized Test Scores and GPA Requirements

Undergraduate GPA: (2.75 or better)

Standardized Test Scores: GRE-V (146 or better) and GRE-Q (147 or better)

Per the 2016 Council for the Accreditation of Counseling and Related Educational Program (CACREP) Standards, admission decisions must include consideration of each applicant's (1) career goals, (2) aptitude for graduate-level study, (3) potential success in forming effective counseling relationships, and (4) respect for cultural differences.

Given these requirements, the admission committee considers multiple sources of information when making decisions. Because GRE test scores

are one of several indicators, lower scores will not automatically disqualify applicants just as high scores do not automatically guarantee admission. Additional sources of information include previous/current grade point average, letters of recommendation, and a personal statement. It should be noted that our applicants typically score above the 50th percentile on both the quantitative and verbal domains.

In addition, applicants deemed to have acceptable scores, strong references, appropriate statement of purposes, and grades will be invited for an interview that will include a series of individual interviews, a group experience, and a possible writing sample with the Counselor Education faculty. Applicants should not infer they have been admitted into the program if granted an admissions interview.

The Counselor Education faculty will make admission decisions after reviewing the applicant's credentials in their entirety, and some candidates meeting minimum requirements may not be admitted. Further, the faculty reserves the right to make subjective decisions about a candidate's ability to appropriately complete graduate work which may influence the decision to admit. Candidates participating in the interview may be given one of two decisions: a) admit, b) denied. Students are notified of their admission status following the interview.

## Non-Degree Seeking Students

Potential students may take classes prior to admission to the Counselor Education Program as "non-degree seeking" students. However, non-degree seeking students are limited to 12 hours of coursework that may be transferred into the Counselor Education Program. Non-degree seeking students may enroll in elective courses with the permission of the instructor. It would be important for non-degree seeking students to make an advising appointment with a Counselor Education faculty member prior to enrolling in courses. Non-degree seeking students are not permitted to take courses not designated as open to non-degree seeking students. It is also important to note that students taking coursework as a non-degree seeking student do so at their own risk. Enrolling and passing non-degree seeking coursework *does not* guarantee admission into the program as admission criteria (e.g., test scores, undergraduate GPA, and interview) are the primary factors considered when reviewing student suitability for the program

## Program Outcomes

Students in the program are required to meet specific outcomes for the program. These outcomes involve knowledge, skills, and abilities. Outcomes are met when students pass critical "high stakes" assessments in the program. Failure to achieve the required outcomes will result in termination from the program.

## Evaluation of Candidates

There are 7 Checkpoints in the assessment system for counseling candidates: Admissions, Course-based Assessments, Comprehensive Exams, Practicum, Internship, and Eligibility for Graduation/Certification. Evaluation of the counselor-in-training is an on-going process. The faculty reserves the right to assess the candidate's appropriateness to be a professional counselor.

## Dispositions

Counselor Education faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education's policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester.

Dispositional areas identified as deficient could result in termination from the program.

## Clinical Experience: Master's Level

Before admission to the program, students in the school counseling concentration must submit to fingerprinting and a Background Review conducted by the Alabama State Department of Education at the student's cost. For information on the cost and how to complete this requirement, go to <http://background.alabama.gov/>. No school counseling student shall begin a clinical placement (Practicum or Internship in an education environment) in Alabama without a suitability letter from the Alabama State Department of Education demonstrating that the student's criminal background has been reviewed and cleared by the Department of Education. Clinical Mental Health counseling students are not required to submit to fingerprinting or a background review upon admission to the Counselor Education Program. However, Clinical Mental Health counseling students are required to complete clinical placements in order to obtain the master's degree in counseling and many of the outside agencies/entities require fingerprinting and background reviews prior to accepting a student for clinical placement. For all counseling students, the appearance of one or more felonies and/or several misdemeanors on a student's background review may negatively impact placement potential and/or credential obtainment.

Per CACREP standards, before beginning the first semester of their clinical experience, students must obtain and submit proof of individual liability insurance. This is to be procured by the student at the student's expense and must be maintained throughout the student's clinical experience. Student must submit proof of current individual liability coverage at the beginning of each semester that student is enrolled in a clinical experience. This is a requirement for all counselor education students, regardless of concentration. If proof of insurance is not provided, student will be administratively removed from the clinical course.

Prerequisites for the clinical experience include successful completion of required coursework, meeting the required outcomes and competencies in Area I, and successful completion of comprehensive exams. The practicum experience requires a minimum of 100 hours (including **40 hours of direct client contact**) on-site at an appropriate setting to be determined by the Clinical Coordinator. The internship is 600 hours (**including 240 hours of direct client contact**) on-site over two semesters ( Each semester, students must have a minimum of 300 hours on -site and 120 hours of direct client contact.) Grading for the clinical experiences is on a Pass/Fail basis. To receive a Pass grade the counselor-in-training must be able to demonstrate basic counseling skills, behave in an appropriate professional manner consistent with the American Counseling Association's Code of Ethics, and satisfactorily complete the academic, dispositional and outcome requirements set forth in both the practicum and internship classes.

## Certificate in Marriage, Couples, and Family Counseling

The certificate in Marriage, Couples, and Family counseling prepares school counselors and clinical mental health counselors to position themselves to more effectively work with clients, to better align with evidence-based practice, and to increase their range of services and versatility through additional coursework in this subject area. The certificate is open to current UAB counselor education students as well as graduates of Master's level school counseling and mental health

programs. The certificate consists of 15 credits of coursework, and takes students about one year to complete on average.

### Admission Process

Candidates seeking admission to the Marriage, Couples, and Family counseling certificate who are graduates of a Master’s level counselor education program, must complete an application found on the UAB Graduate School website, as well as submit a statement of purpose, and their graduate-level transcript. Equivalent completed coursework from a CACREP counseling program may be substituted for a required course for the certificate. Admission is accepted for summer and fall terms. The admissions deadline for the certificate is April 1. The prerequisite course (ECG 691) for all other coursework for the certificate is offered in the summer term only.

Current UAB clinical mental health or school counseling students who wish to pursue the MCF certificate should speak with their advisor to arrange to complete the required coursework.

Note: 1) All students must complete ECG 691, ECG 685, ECG 689, ECG 680, and ECG 660 for a total of 15 hours. 2) A student who has graduated from the Clinical Mental Health Counseling program may need to complete ECG 661 in lieu of ECG 691 and ECG 660 if these were already completed. 3) A student who has graduated from the School Counseling program or another university has the option of completing ECG 661 as an elective.

Requirements		Hours
ECG 660	Relationships and Human Sexuality	3
ECG 661	Play Therapy I	3
ECG 680	The Intersections of Family and Community Systems	3
ECG 685	Marriage and Couples Counseling	3
ECG 689	Advanced Family Counseling Techniques	3
ECG 691	Introduction to Couples and Family Counseling	3
<b>Total Hours</b>		<b>18</b>

### Master of Arts in Counseling with a Concentration in Clinical Mental Health

The Master of Arts in Counseling with a concentration in Clinical Mental Health counseling is designed to prepare students to demonstrate knowledge and skills with several counseling modalities appropriate for a broad range of clients in a multicultural society; interact effectively with other helping professionals and referral resources; make appropriate counselor-client related decisions in the context of professional, ethical, and legal guidelines; and fill effectively entry-level positions of professional responsibility within the specialization of agency counseling. The coursework is approved by the Alabama Board of Examiners in Counseling, which allows graduates of the program to pursue licensure as professional counselors in the state of Alabama. This program takes no less than 3 years to complete. For most students, it takes approximately 3 years or 9 terms (including summers) to complete the program.

Requirements		Hours
<b>Area I</b>		
EPR 590	Research & Prgm Eval in Coun	4
ECG 612	Professional Orientation	3
ECG 621	Theories of Individual Counseling	3
ECG 624	Assessment	3
ECG 626	Group Counseling: Process and Procedures	3

ECG 628	Social and Cultural Diversity	3
ECG 630	Career Development: Vocational and Life Planning	3
ECG 638	Practicum I: Clinical Skills and Techniques	3
EPR 614	Lifespan Human Development	3

Comprehensive Exam <sup>1</sup>

Area II		
ECG 600	Intro to Community Counseling	3
ECG 613	Foundations of Substance Abuse	3
ECG 631	Suicide Prevention	3
ECG 650	Diagnosis and Treatment of Psychological Disorders	3
ECG 652	Advanced Counseling Techniques	3
ECG 653	Counseling Children and Adolescents	3
ECG 660	Relationships and Human Sexuality	3
ECG 691	Introduction to Couples and Family Counseling	3

#### Area III: Clinical Requirements

ECG 695	Practicum II: Supervised Field Experience	3
Counseling Internship		6
ECG 697	Counseling Internship	

**Total Hours 61**

1 The Counselor Preparation Comprehensive Exam will be given the semester of successful completion or upon successful completion of Area I. This is a “high stakes” assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.

### Master of Arts in Counseling with a Concentration in Marriage, Couples and Family Counseling

The Master of Arts in Counseling with a concentration in Marriage, Couples, and Family counseling is designed to prepare students to work with individuals, couples, or groups where interpersonal relationships are examined for the purpose of achieving more adequate, satisfying, and productive marriage and family adjustments; make appropriate ethical decisions as counseling professionals; comprehend systems theory and use it to conceptualize problems and solutions for couples and families; and fill effectively, entry-level positions of professional responsibility within the specialization of marriage and family counseling. The coursework allows graduates of the program to pursue licensure as marriage and family therapists in the state of Alabama. This program takes about 3 years to complete.

Requirements		Hours
<b>Area I</b>		
EPR 590	Research & Prgm Eval in Coun	4
ECG 612	Professional Orientation	3
ECG 621	Theories of Individual Counseling	3
ECG 624	Assessment	3
ECG 626	Group Counseling: Process and Procedures	3
ECG 628	Social and Cultural Diversity	3
ECG 630	Career Development: Vocational and Life Planning	3
ECG 638	Practicum I: Clinical Skills and Techniques	3
EPR 614	Lifespan Human Development	3
ECG 691	Introduction to Couples and Family Counseling	3
Comprehensive Exam <sup>1</sup>		

Area II		
ECG 613	Foundations of Substance Abuse	3
ECG 650	Diagnosis and Treatment of Psychological Disorders	3
ECG 653	Counseling Children and Adolescents	3
ECG 660	Relationships and Human Sexuality	3
ECG 680	The Intersections of Family and Community Systems	3
ECG 685	Marriage and Couples Counseling	3
ECG 689	Advanced Family Counseling Techniques	3
Area III: Clinical Requirements		
ECG 695	Practicum II: Supervised Field Experience	3
	Counseling Internship	6
ECG 697	Counseling Internship	
<b>Total Hours</b>		<b>61</b>

<sup>1</sup> The Counselor Preparation Comprehensive Exam will be given the semester of successful completion or upon successful completion of Area I. This is a "high stakes" assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.

## Master of Arts in Counseling with a Concentration in School Counseling

According to the American School Counseling Association, "the purpose of a counseling program in a school setting is to promote and enhance the learning process." The goal is to enable all students to achieve success in school and to develop into contributing member of our society.

The concentration in School counseling is designed to prepare individuals as counselors in grades K-12. The program leading to the Master of Arts in Counseling degree requires a minimum of 61 semester hours of prescribed coursework to meet the academic and field experience requirements for the SDE Class A Professional Certificate in school counseling.

**Certification Requirements:** In order to receive certification as a school counselor, school counseling students who do not hold a teacher certificate in Alabama must satisfactorily obtain a passing score on the following assessments: AECAP ACT WorkKeys basic skills assessment, the Praxis II Test in School Counseling, and the National Counselor Exam. School counseling students who already hold teaching certificates in Alabama must obtain a passing score on the Praxis II Test in School Counseling to receive certification.

The school counseling concentration meets the course work and field experiences required by the Alabama State Department of Education for certification. The concentrations meet the academic and field experience requirements for licensure as professional counselors in Alabama.

Requirements	Hours	
Area I		
EPR 590	Research & Prgm Eval in Coun	4
ECG 612	Professional Orientation	3
ECG 621	Theories of Individual Counseling	3
ECG 624	Assessment	3
ECG 626	Group Counseling: Process and Procedures	3
ECG 628	Social and Cultural Diversity	3
ECG 630	Career Development: Vocational and Life Planning	3
ECG 638	Practicum I: Clinical Skills and Techniques	3

EPR 614	Lifespan Human Development	3
Comprehensive Exam <sup>1</sup>		
Area II		
ECG 619	Special Issues for School Counselors	3
ECG 620	Foundations of School Counseling	3
ECG 623	Comprehensive Counseling and Guidance: M/H School	3
ECG 627	Comprehensive Counseling and Guidance: Elementary School	3
ECG 653	Counseling Children and Adolescents	3
ECG 661	Play Therapy I	3
ECG 680	The Intersections of Family and Community Systems	3
ECY 600 (If not completed previously)		0-3
ECY 600	Introduction to Exceptional Learner <sup>2</sup>	
EEC 515	Learning Environments through Positive Behavior Support	3
Area III: Clinical Requirements		
ECG 695	Practicum II: Supervised Field Experience	3
	Counseling Internship	6
ECG 697	Counseling Internship	
<b>Total Hours</b>		<b>61-64</b>

- <sup>1</sup> A National Comprehensive Examination will be given the semester of successful completion or upon successful completion of Area I. This is a "high stakes" assessment. Students who do not successfully pass this examination will be given the opportunity to re-take the exam a maximum of two times. There are no exceptions. Students unsuccessful in passing the comprehensive exam after 3 attempts will be dismissed from the program.
- <sup>2</sup> Must be taken if not taken as part of previous studies. This usually applies to students who did not go through teacher certification programs previously.

## Educational Leadership

Because admission to these programs is selective, prospective students should contact a departmental advisor to determine specific admission requirements for the degree or certificate in which they are interested. For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admissions>.

The following degrees are offered: Master of Arts in Education (MAE) in Educational Leadership, leading to Alabama Class A Certification in Instructional Leadership; the Educational Specialist Degree (EdS), leading to Alabama Class AA Certification in Instructional Leadership (must have Class A in Instructional Leadership to apply); the Doctorate of Education degree (Ed.D.) in Educational Leadership (must have Ed.S. in Educational or Educational Support area and a leadership background). The programs leading to the Doctorate of Education (Ed.D.) degree in educational leadership are offered at UAB by the joint faculties of UAB and the University of Alabama (Tuscaloosa). Admission is highly selective and is open every other year. In addition to the Graduate School requirements, a portfolio and writing sample are required by the program.

The Educational Leadership program also offers a Post Master's Certification (PMC) program as a reduced-hour option leading to Alabama Class A certification in Instructional Leadership for individuals who already hold a master's degree and Class A certification in an

instructional or instructional support area, and who have at least three years' certified classroom teaching experience.

### Additional Information

For detailed information, contact Dr. Keith Gurley, Program Director, Educational Leadership, Department of Human Studies, UAB School of Education, 1720 2nd Avenue South, EB 210B, Birmingham, AL 35294-1250.

Telephone: 205-975-1983  
 E-mail: kgurley@uab.edu (lcollins@uab.edu)  
 Web: <http://www.uab.edu/education/humanstudies/educational-leadership>

### Dispositions

Educational Leadership faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education's policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

### Master of Arts in Education in Educational Leadership

The M.A.Ed. degree requires a minimum of 33 credit hours for the Educational Leadership program. A GPA of 3.25 is required.

Requirements	Hours
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EDL 601 Foundations of Instr. Ldrshp	3
EDL 602 Fld Exp: Found of Inst Ldrshp	1
EDL 603 Data Driven Decision Making	3
EDL 604 Fld. Exp. in Data Driven Dec.	1
EDL 605 Residency in Inst. Leadership	6
EDL 606 Supervision/ Ment. Inst. Staff	3
EDL 607 Fld Exp. in Super / Mentoring	1
EDL 608 Org. & Financial Mgt	3
EDL 609 Fld. Exp. in Org & Finc Mgmt	1
EDL 610 Legal & Ethical Foundations	3
EDL 611 Fld. Exp. in Legal/Eth Found	1
EDL 612 Best Prac. Inst. Ldrshp	3
EDL 613 Fld Exp in Best Practices for Inst Ldrshp for Diverse Populations	1
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> Not required if previously completed

### Post-Master's Certificate in Educational Leadership

Requirements	Hours
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
EDL 601 Foundations of Instr. Ldrshp	3
EDL 605 Residency in Inst. Leadership	6
EDL 606 Supervision/ Ment. Inst. Staff	3
EDL 608 Org. & Financial Mgt	3

EDL 610	Legal & Ethical Foundations	3
<b>Total Hours</b>		<b>21</b>

<sup>1</sup> Not required if previously completed

### Educational Specialist in Educational Leadership

The Ed.S. degree requires a minimum of 35 credit hours for the Educational Leadership program. A GPA of 3.50 is required.

Requirements	Hours
EDL 717 Leading Change Through Action Research	3
EDL 717L Field Experience for Leading Change Through Action Research	1
EDL 727 Leading the Adult Learning Community	3
EDL 727L Field Experience for Leading the Adult Learning Community	1
EDL 718 Essential Skills for Organizational Leadership	3
EDL 718L Field Experience for Essential Skills for Organizational Leadership	1
EDL 728 Management of the Learning Organization	3
EDL 728L Field Experience for Management of the Learning Organization	1
EDL 731 Law, Ethics, and Policy for Educational Leaders	3
EDL 731L Field Experience for Law, Ethics, and Policy for Educational Leaders	1
EDL 732 Leadership of Special Programs	3
EDL 732L Field Experience for Leadership of Special Programs	1
EDL 719 Mentoring & Coaching Skills for School Leaders	3
EDL 719L Field Experience for Mentoring & Coaching Skills for School Leaders	1
EDF 700 Urban Education	3
or EDF 702 Critical Social Issues in American Education	
EDL 746 Practicum in Instructional Leadership <sup>1</sup>	1
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	3
<b>Total Hours</b>	<b>35</b>

<sup>1</sup> Not required if previously completed

### Educational Doctorate in Educational Leadership

The Educational Doctorate in Educational Leadership program requires a minimum of 55 hours. The minimum required GPA is 3.50.

Requirements	Hours
AEL 602 Advanced Educational Leadership	3
AEL 650 Organizational Theory	3
AEL 671 Survey of the Research on Instructional Supervision	3
EDL 720 Field Project in Educational Leadership	3
EDL 725 Current Issues and Problems in School Administration	3
EDL 755 Advanced School System Administration	3
EDF 708 Ethical Dilemmas in Educational Administration	3
EDF 720 Cult and Amer Educ: Race Class and Gender	3
EDL 756 Current Legal Problems in Alabama Education	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EPR 607 Microcomputer Applications to Statistical Analysis	1

EPR 608	Statistical Methods and Action Research	3
EPR 692	Introduction to Educational Research Design	3
EPR 696	Qualitative Research: Inquiry and Analysis	3
or EPR 609	Statistical Methods and Research in Education: Intermediate	
EDL 799	Dissertation Research	12
GRD 717	Principles of Scientific Integrity <sup>1</sup>	3
<b>Total Hours</b>		<b>55</b>

<sup>1</sup> May be replaced with approved substitute

## Community Health

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admissions>.

### Overview of Our Programs

The Community Health and Human Services program at UAB is designed to prepare students to work in professional health settings including national/state health agencies, clinical-based programs, and community-based non-profit agencies. In addition to studying contemporary health content, students are guided in the process of assessing, planning, implementing, and evaluating health-related programs and interventions which correspond to the National Commission for Health Education Credentialing professional standards. Students are provided numerous opportunities to practice advanced health education specialist tasks via Instructor lead community-based projects and purposefully designed service learning experiences.

### Graduate Certificate in Health Education

The Graduate Certificate in Health Education is designed for students who desire to work in the community or enhance their skills in academia and seek preparation at the graduate level in community health, but not a full master's degree. This certificate will formally recognize UAB students and community professionals who have sought out necessary skills and training in community health education. All courses are offered online.

### Master of Arts in Education (M.A.Ed.): Community Health (Online)

The Community Health and Human Services program at UAB prepares students for advanced employment opportunities beyond the bachelor's degree level (MAEd in Community Health). Work settings include public, volunteer, and private health agencies, clinics, and worksites. Students gain skills in health education program planning, implementation, and evaluation. Students are provided numerous opportunities to practice advanced health education specialist tasks via Instructor lead community-based projects and purposefully designed service learning experiences. Students learn research-based protocol and may choose to complete either a thesis or an internship upon degree completion. Required courses include research design, the advanced health education/promotion specialist, program planning, evaluation, and administration, along with behavioral theory. Course work is aligned with responsibilities and competencies of advanced level health education specialists developed by the National Commission for Health Education Credentialing ([www.nchec.org](http://www.nchec.org)). This program of study has been developed to include the knowledge and competencies needed

to prepare students for either the Certified or Master Certified Health Education Specialist (CHES/MCHES) examination.

Masters of Arts in Education (M.A.Ed.): Community Health with a Graduate Certificate in Nonprofit Management (Online)

Through this joint venture between the Community Health and Human Services program and the Department of Government, students learn advanced health education programming planning, implementation, and evaluation competencies as well as nonprofit management skills such as grant writing and fund raising. The program exposes students to volunteer, private health agencies, clinics, and worksites.

### M.A.Ed. Admission Process (Online)

Consideration for admission to the master's degree program will occur each Fall and Spring term. The completed application packet must be received by the Community Health and Human Services Program from the Graduate School by the dates shown:

Entry Term	Deadline
Fall	April 30
Spring	October 30

Admission to graduate study in Community Health and Human Services is initiated through the Graduate School and all required materials are to be submitted per specified instructions delineated by the Graduate School. M.A.Ed. applicants should have a cumulative GPA of 2.50. The M.A.Ed program does not require that student complete the MAT/GRE examination. In rare cases, applicants who do not meet aforementioned standards may be considered for admission.

In addition, applicants must address several questions in writing that reflect the applicant's background, development, pertinent work-related experience, and professional career objectives relating to careers in Community Health. Applicants will also be required to submit a professional resume. All applications for graduate admission are reviewed by the community health and human services faculty may be given one of two decisions: a) admit or b) not admit.

### Graduate Traineeship in Pediatric Pulmonary Care (with School of Health Professions)

A Graduate Traineeship in Pediatric Pulmonary Care (PPC) is offered to one student and is designed specifically for professionals desiring a graduate degree in Community Health and Human Services who are interested in pediatric pulmonary care, and aspiring to positions of leadership. The traineeship features a combination of planned coursework, hospital rounds, pulmonary clinics, patient and family education and research experience and is designed specifically for professionals desiring a graduate degree in Community Health and Human Services (master's or doctorate), who are interested in pediatric pulmonary care, and aspiring to positions of leadership. This 12-month interdisciplinary training program is offered to graduate students in Respiratory Therapy - Community Health and Human Services nursing, nutrition, social work and medicine. Training is provided in each of the Maternal and Child Health Leadership Competencies. The Traineeship includes a monthly stipend (for up to 12 months) and tuition assistance (limited to U.S. citizens or to individuals with a permanent visa). If interested in the PPC program, contact Dr. Laura Forbes, [ltalbott@uab.edu](mailto:ltalbott@uab.edu)

## Student Professional Dispositions

Community Health and Human Services faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education’s policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

## Graduate Program Policies

No individual course grade below “C” will be accepted. Each course with an earned grade below “C” must be repeated. Repeating a required health education course more than twice is not permitted. If a student receives a grade lower than a “C” after their second attempt, he or she will be dismissed from the Community Health and Human Services program and not allowed readmission.

## Non-Degree Seeking Graduate Students

Following admission to the UAB Graduate School, students may enroll in elective Community Health and Human Services courses as “non-degree seeking” students with the permission of the instructor. Non-degree seeking students are limited to 12 hours of coursework. It is essential for non-degree seeking students to make an advising appointment with a faculty member prior to enrolling in elective courses as some elective courses have pre-/co-requisites. Non-degree seeking students are not permitted to take “core” health education courses prior to admission. Enrolling and passing non-degree seeking coursework does not guarantee admission into a masters or doctoral degree program. Admission criteria (cumulative GPA, recommendations, and written statement) are the primary factors considered when reviewing student suitability for admission to a program.

## Graduate Certificate in Health Education

The last decade has seen significant emphasis being placed on the ability of professionals in non-profit, governmental and agency settings to have the skills and training needed to effectively plan, implement and evaluate health related policies and programs. Skills such as grant writing, budgeting, assessing needs of the service population, and using an ecological lens to develop meaningful interventions are only a few of the needed competencies in today’s job market. This certificate is for students who have a desire to work in the community or enhance their skills in academia and want some preparation at the graduate level in health education, but not a full master’s degree. This certificate is also appropriate for those already working in community agencies who want advanced skills and knowledge of how to conduct successful health-related interventions using a community based participatory research approach.

The Graduate Certificate in Health Education is designed for students who have a desire to work in the community or enhance their skills in academia and want some preparation at the graduate level in community health, but not a full master’s degree. This certificate will formally recognize UAB students and community professionals who receive the necessary skills and training in community health education. All courses are offered online.

Requirements	Hours
CHHS 631 Applied Planning and Implementation of Health Education/Promotion Programs	3

CHHS 632	Advanced Administration of Health Education/Promotion Programs	3
CHHS 642	Applied Behavioral Theory and Health Education/Promotion	3
CHHS 697	Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	3
<b>Choose One of the Following Options</b>		<b>3</b>
CHHS 606	Advanced Issues of Disease Prevention in Health Education/Promotion	
CHHS 610	The Advanced Health Education/Promotion Specialist	
CHHS 621	Health Communications & Health Coaching	
CHHS 689	Intervention Strategies for Health Education/Promotion	
<b>Total Hours</b>		<b>15</b>

## M.A.Ed. in Community Health

Designed to prepare individuals for advanced health education careers in agency, schools, worksites, and allied health care settings. All courses are offered online. This program is aligned with the National Commission for Health Education Credentialing and prepares students to sit for the Certified Health Education Specialist or the Master Certified Health Education Specialist examination. CHES/MCHES provides evidence of competency of the knowledge, skills and application of the Areas of Responsibilities defining the role of an entry or masters-level health educator. Program options allow students to select thesis, or an internship option.

## Master of Arts in Education in Community Health (Online)

### Admission Requirement and Prerequisites

In addition to the general admission requirements of the Graduate School, it is preferred that applicants have passed an undergraduate or graduate level BY or CH course. Undergraduate level Chemistry, Anatomy, and Physiology courses are preferred program prerequisites.

## Plan I - 36 hours and Thesis

This is an online program.

Requirements	Hours
<b>Major Courses</b>	
EPR 594 Introduction to Educational Research Design	3
CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion	3
EPR 609 Statistical Methods and Research in Education: Intermediate	3
CHHS 610 The Advanced Health Education/Promotion Specialist	3
CHHS 621 Health Communications & Health Coaching	3
CHHS 631 Applied Planning and Implementation of Health Education/Promotion Programs	3
CHHS 632 Advanced Administration of Health Education/Promotion Programs	3
CHHS 642 Applied Behavioral Theory and Health Education/Promotion	3
CHHS 689 Intervention Strategies for Health Education/Promotion	3
CHHS 697 Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	3
<b>Thesis (6 hours of CHHS 699)</b>	<b>6</b>

CHHS 699 Thesis Research (Responsible Conduct of Research Training Must Be Completed Prior to Advancement to Candidacy)

**Total Hours 36**

## Plan II - 36 hours and Comprehensive Exam

**This is an online program.**

Requirements	Hours
<b>Major Courses</b>	
EPR 594 Introduction to Educational Research Design	3
CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion	3
EPR 609 Statistical Methods and Research in Education: Intermediate	3
CHHS 610 The Advanced Health Education/Promotion Specialist	3
CHHS 621 Health Communications & Health Coaching	3
CHHS 631 Applied Planning and Implementation of Health Education/Promotion Programs	3
CHHS 632 Advanced Administration of Health Education/Promotion Programs	3
CHHS 642 Applied Behavioral Theory and Health Education/Promotion	3
CHHS 689 Intervention Strategies for Health Education/Promotion	3
CHHS 697 Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	3
CHHS 693 Advanced Field Experience in Community Health Education	6
<b>Total Hours</b>	<b>36</b>

## Comprehensive Examination (Non-Thesis Option Only)

Students selecting the Non-Thesis M.A.Ed. option must complete a supervised internship including comprehensive exams during their last semester of course work. The comprehensive examination process requires that students demonstrate content knowledge, critical thinking skills, and abilities to perform tasks of the advanced level Health Education Specialist. A student cannot attempt the internship and comprehensive examination more than twice. Those who cannot complete the internship and exam with a passing score during the second attempt will be dismissed from the program and not allowed readmission. Contact the Community Health and Human Services academic advisor for more information.

## Master of Education in Community Health with a Non-Profit Management Graduate Certificate

The M.A.Ed. degree requires a minimum of 42 credit hours for the Community Health with a Non-Profit Management Graduate certificate.

## Plan I - 42 hours with Thesis

Requirements	Hours
CHHS 610 The Advanced Health Education/Promotion Specialist	3
CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion	3

CHHS 631 Applied Planning and Implementation of Health Education/Promotion Programs	3
MPA 671 Marketing and Fundraising	3
MPA 672 Nonprofit Management	3
CHHS 642 Applied Behavioral Theory and Health Education/Promotion	3
CHHS 689 Intervention Strategies for Health Education/Promotion	3
EPR 594 Introduction to Educational Research Design	3
CHHS 697 Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	3
EPR 609 Statistical Methods and Research in Education: Intermediate	3
Graduate Level Elective (choose two)	6
MPA 684 Grants Management	
MPA 674 GIS for Managers	
MPA 678 Strategic Planning	
Thesis (6 hours of CHHS 699)	6
CHHS 699 Thesis Research (Pre-requisite GRD 717)	
<b>Total Hours</b>	<b>42</b>

## Plan II - 42 hours with Comprehensive Exam

Requirements	Hours
CHHS 610 The Advanced Health Education/Promotion Specialist	3
CHHS 606 Advanced Issues of Disease Prevention in Health Education/Promotion	3
CHHS 631 Applied Planning and Implementation of Health Education/Promotion Programs	3
MPA 671 Marketing and Fundraising	3
MPA 672 Nonprofit Management	3
CHHS 642 Applied Behavioral Theory and Health Education/Promotion	3
CHHS 689 Intervention Strategies for Health Education/Promotion	3
EPR 594 Introduction to Educational Research Design	3
CHHS 697 Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	3
EPR 609 Statistical Methods and Research in Education: Intermediate	3
Graduate Level Elective (choose two)	6
MPA 684 Grants Management	
MPA 674 GIS for Managers	
MPA 678 Strategic Planning	
CHHS 693 Advanced Field Experience in Community Health Education	6
<b>Total Hours</b>	<b>42</b>

## Comprehensive Examination (Non-Thesis Option Only)

Students in the Non-Thesis M.A.Ed. program must complete a supervised internship at a pre-approved community health education/promotion site. Student must also complete the comprehensive examinations during their last semester of coursework. The examination is an opportunity for students to demonstrate the appropriate aptitude for advanced level health education competencies. The comprehensive exam is a culminating task that encompasses the content knowledge and critical thinking skills that a Health Education/Promotion Specialist should

possess. A student cannot attempt the internship and comprehensive examination more than twice. Those who cannot complete the internship and examination with a passing score during the second attempt will be dismissed from the program and not allowed readmission. Please contact the CHHS Graduate Program Director for additional information.

## Health Education/Health Promotion

For detailed information regarding admission requirements for the School of Education graduate programs, please visit the Admissions Requirements website at <https://www.uab.edu/education/studentservices/admission-requirements>.

### Health Education/Health Promotion (PhD)

Graduate Program Director: Dr. Retta Evans, [rrevans@uab.edu](mailto:rrevans@uab.edu)

#### Ph.D. Health Education/Health Promotion

The PhD in Health Education/Health Promotion is a UA System degree jointly administered by three units: UAB School of Education and College of Arts & Sciences, UAB School of Public Health, and UA College of Human Environmental Sciences. Students draw upon the expertise and resources of a diverse and highly qualified faculty. Faculty members strive to create a rigorous scholarly and supportive atmosphere for students to develop intellectually with the knowledge, skills and attitudes necessary to be ethical and responsible health education professionals.

#### Ph.D. Admission Process

Consideration for admission to graduate study in health education will occur each Fall for acceptance to start the following Fall term. The completed application packet must be received by the Community Health and Human Services Program from the Graduate School by the dates shown:

Entry Term	Deadline
Fall	October 30

Candidates for admission must have completed a bachelor's or master's degree from an accredited institution in health education or a health-related field. Admission to doctoral study is initiated through the Graduate School. Applicants will: (a) request official transcripts of all college coursework to send to UAB Graduate School; (b) submit (3) letters of recommendation from professors or others who are qualified to judge your ability to complete doctoral coursework; (c) complete the GRE indicating UAB as the recipient of your scores; and (d) submit writing sample(s), such as an essay describing your academic training, professional experiences and career goals. Admission to the program is competitive.

Ph.D. applicants should have a cumulative GPA of 3.00/4.00 or greater for prior college coursework and preferred GRE scores of 312 or greater. Faculty consider GRE scores as one indicator of an applicant's potential success in the doctoral program.

#### Ph.D. Health Education/Health Promotion Program of Study

Students may enter the program with either a bachelor's or master's degree in health education, or a master's degree in a closely related health field. Prerequisite coursework includes Foundations of Health

Education, Health Education Planning and Evaluation, and Research Design and Statistics. These requirements may be corequisite components in the program.

Students entering the program with a master's degree may transfer appropriate coursework to this program; however, this will not reduce the number of courses required. Students will not be required to retake coursework already completed but may be required to complete prerequisites as part of their planned course of study.

A required review of student credentials prior to admission will identify strengths and needs. This review will provide students with a blueprint for their course of study and will be conducted by the program director and faculty advisor.

The PhD degree program will require students to complete a minimum of 72 credit hours: 42 hours of coursework, 12 hours of research internship, and 18 hours of dissertation research. Students will meet regularly with a faculty advisor to plan course enrollment.

**Research and Statistics Prerequisites:** Students are required to have completed the following courses (or equivalents) BEFORE enrolling in the Advanced Research and Statistical Methods Core.

Requirements	Hours
EPR 594 Introduction to Educational Research Design	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EPR 608 Statistical Methods and Action Research & EPR 607 and Microcomputer Applications to Statistical Analysis	4
EPR 609 Statistical Methods and Research in Education: Intermediate	3
<b>Total Hours</b>	<b>13</b>

The specific components of the PhD program in health Education and Health Promotion are outlined below.

#### Ph.D. through the School of Education

Requirements	Hours
<b>I. Health Education and Promotion CORE Courses</b>	<b>12</b>
CHHS 731 Advanced Theoretic/Scientific Basis of Health Education/Promotion	
CHHS 732 Advanced Planning and Implementation of Health Education/Promotion Programs	
CHHS 733 Evaluation of Health Education/Promotion Programs	
CHHS 734 Health Education Seminar I	
CHHS 735 Health Education Seminar II	
CHHS 736 Health Education Seminar III	
<b>II. Advanced Research and Statistical Methods Core</b>	<b>12</b>
EPI 610 Principles of Epidemiologic Research	
EPR 696 Qualitative Research: Inquiry and Analysis	
EPR 710 Computer Applications and Advanced Statistical Methods	
<b>Graduate Research Design</b> <sup>1</sup>	
EPR 695 Survey Methods in Educational Research	
EPR 790 Mixed Methods Approaches in Action Research	
<b>III. Coursework in the Social and Behavioral Sciences</b> <sup>2</sup>	<b>18</b>
<b>IV. Research Internship (Pre-requisite GRD 717)</b>	<b>12</b>
<b>V. Dissertation</b>	<b>18</b>
<b>Total Hours</b>	<b>72</b>

- Choose one course that fits the needs of your dissertation, with the approval of an advisor. Two examples are listed, but other courses could apply.
- Selection of courses pre-approved by doctoral program advisor to build knowledge and skills in a cognate area, e.g. Health Disparities, Research, Global Health, Public Health Policy, Aging and Health, Disabilities and Health.

## Comprehensive Examination

A written comprehensive examination is required of all candidates for the Ph.D. degree. Your preparation will include studying course content, core competencies for the profession, and related literature of the discipline. Prior to taking the exam, students must have completed their core course requirements. Students must register for a minimum of 3.0 hours of graduate work during the semester in which the comprehensive exam is taken.

The Comprehensive exam will be offered twice each year and is written and graded by the graduate faculty in the joint doctoral program. The examination will be a synthesis of the core coursework as well as core competencies in the field of Health Education and Health promotion. Grading of the comprehensive exam is done blinded, and by consensus. Students who fail to achieve passing scores will have one attempt to remediate within a calendar year. If a student fails a section for the second time, they will be dismissed from the program.

## Kinesiology

Degrees offered include the Master of Science and the Educational Specialist. At the master's degree level, students may specialize in Exercise Physiology (see listing below for more information about this program) or complete a teacher certification program (traditional master's program for those holding a valid B level certificate in physical education or the alternative master's program for those NOT completing an undergraduate physical education teacher education program). The traditional master's and the educational specialist link teacher certification with the graduate program in physical education. For example, the M.S. awards the level A certificate and the Ed.S. is linked to the AA certificate. Each program requires a teaching certificate in physical education at the previous level (e.g., B certificate for admission to the A level, except the Alternative A program, and the A certificate for admission to the AA certificate).

## Dispositions

Faculty individually review the professional dispositions (behaviors and attitudes) of students within each course in accordance with the School of Education's policy and procedure. Additionally, faculty will collectively review student dispositions and overall progress in the program at the end of each semester. Dispositional areas identified as deficient could result in termination from the program.

## Master of Science and "A" level teaching certificate; Non-Thesis

(31-34 hours)

Teaching Field: At least 1/3 of the program shall be teaching field courses. (18 hours)

Requirements	Hours
KIN 643 Curriculum Development in Physical Education	3

KIN 647 Teaching Strategies and Issues in K-12 PE	3
KIN 649 Adapted Physical Education	3
KIN 693 Advanced Field Experience in Physical Education	3

### Additional Courses (13-16 hours)<sup>1</sup>

Survey of Special Education Coursework: Required if not previously completed (0-3 hours)	0-3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	
EPR 607 Microcomputer Applications to Statistical Analysis	1
EPR 608 Statistical Methods and Action Research	3
EDF or EPR 600 level course	3
Electives (as approved by advisor) <sup>2</sup>	12
<b>Total Hours</b>	<b>31-34</b>

- Survey of Special Education Coursework: Required if not previously completed (0-3 hours)
- Potential courses that may be used for the Electives in the Physical Education Teacher Certification Master's Degree Program: KIN 601, KIN 607, KIN 636, KIN 645, KIN 650, KIN 651, KIN 672, KIN 693, KIN 694,. Other graduate level courses may be used with the consent of your Advisor.

## Master of Science and "A" level teaching certificate; Thesis

(30-33 hours)

Teaching Field: At least 1/3 of the program shall be teaching field courses. (18 hours)

Requirements	Hours
Survey of Special Education Coursework: Required if not previously completed (0-3 hours)	0-3
ECY 600 Introduction to Exceptional Learner	
KIN 643 Curriculum Development in Physical Education	3
KIN 647 Teaching Strategies and Issues in K-12 PE	3
KIN 693 Advanced Field Experience in Physical Education	3
KIN 649 Adapted Physical Education	3
KIN 699 Thesis Research	6
<b>Additional Courses (13 hours)</b>	
EDF or EPR 600 level course	3
EPR 607 Microcomputer Applications to Statistical Analysis	1
EPR 692 Introduction to Educational Research Design	3
EPR 608 Statistical Methods and Action Research	3
Electives (as approved by advisor) <sup>2</sup>	3
<b>Total Hours</b>	<b>31-34</b>

- Survey of Special Education Coursework: Required if not previously completed (0-3 hours)
- Potential courses that may be used for the Elective in the Physical Education Teacher Certification Master's Degree Program: KIN 601, KIN 607, KIN 636, KIN 645, KIN 650, KIN 651, KIN 672, KIN 693, KIN 694,. Other graduate level courses may be used with the consent of your Advisor.

## Exercise Physiology

The Exercise Physiology specialization offers a master's degree option for students interested in either clinical exercise physiology or physiology research. The curriculum is multidisciplinary and can comprise of courses

in the Schools of Education, Medicine, Health Related Professions, and Public Health. Two program plans are offered (detailed below). Plan I culminates with a thesis research project, and Plan II culminates with a written comprehensive exam. Resources for student participation in research include an Exercise Physiology Laboratory and Exercise & Nutritional Physiology Laboratory. Wide arrays of field experiences are also available at UAB and in local agencies and clinics. In addition to Graduate School admission requirements, prospective students must have completed undergraduate coursework in Biology or Chemistry. Listed below are the courses required in the program and a sample of elective courses.

## Master of Science in Kinesiology with Exercise Physiology Concentration

### Admission Requirement and Prerequisites

In addition to the general admission requirements of the Graduate School, potential applicants must have passed an undergraduate or graduate level BY or CH course. Undergraduate level Chemistry, Anatomy, and Physiology courses are program prerequisites. A minimum GPA of 3.25 is required.

### Plan I - 33 hours with Thesis

Requirements	Hours
EPR 596 Introduction to Qualitative Methods in Educational Research	3
EPR 609 Statistical Methods and Research in Education: Intermediate <sup>1</sup>	3
KIN 637 Physiology of Exercise I	3
KIN 638 Physiology of Exercise II	3
KIN 642 Practicum in Physiology	3
KIN 699 Thesis Research	6
Electives in Major <sup>2</sup>	12
<b>Total Hours</b>	<b>33</b>

- EPR 609 has a prerequisite of EPR 607/EPR 608 or equivalent (the equivalent must have been completed within two years of enrolling in EPR 609 and the student must have earned a grade of C or better); OR, a student may take a by-pass exam and earn a score of 70 or above. Please contact Dr. Melanie Shores, (EPR Program Director), mshores@uab.edu if you have questions regarding this EPR Policy.
- Potential courses that may be used for the Electives in the Exercise Physiology Master's Physiology Master's Degree Program: CHHS 502, GER 540, KIN 585, KIN 630, KIN 639, KIN 640, KIN 645, KIN 656, KIN 672, KIN 674, KIN 690, KIN 694, KIN 695, KIN 697, NTR 579, NTR 601, NTR 618, NTR 625, NTR 650. Other graduate level courses may be used with the consent of your Advisor.

### Plan II - 36 hours with Comprehensive Exam

Requirements	Hours
EPR 609 Statistical Methods and Research in Education: Intermediate <sup>1</sup>	3
EPR 596 Introduction to Qualitative Methods in Educational Research	3
KIN 637 Physiology of Exercise I	3
KIN 638 Physiology of Exercise II	3

Electives in Major <sup>2</sup>	24
<b>Total Hours</b>	<b>36</b>

- EPR 609 has a prerequisite of EPR 607/EPR 608 or equivalent (the equivalent must have been completed within two years of enrolling in EPR 609 and the student must have earned a grade of C or better); OR, a student may take a by-pass exam and earn a score of 70 or above. Please contact Dr. Melanie Shores, (EPR Program Director), mshores@uab.edu if you have questions regarding this EPR Policy.
- Potential courses that may be used for the Electives in the Exercise Physiology Master's Physiology Master's Degree Program: CHHS 502, GER 540, KIN 585, KIN 630, KIN 639, KIN 640, KIN 645, KIN 656, KIN 672, KIN 674, KIN 690, KIN 694, KIN 695, KIN 697, NTR 579, NTR 601, NTR 618, NTR 625, NTR 650. Other graduate level courses may be used with the consent of your Advisor.

## Master of Science in Kinesiology: Physical Education Alternative Master's Non-Thesis Program

The M.S. requires a minimum of 51 hours for the Physical Education Alternative Master's Non-Thesis program. A GPA of 3.25 is required.

Requirements	Hours
Required if not previously completed:	0-3
ECY 600 Introduction to Exceptional Learner <sup>1</sup>	
EDF or EPR 500-600 level course (Advisor Approval Required)	3
EDR 551 Reading in Content Areas	3
EDU 500 Education as a Profession	1-3
EPR 607 Microcomputer Applications to Statistical Analysis	1
EPR 608 Statistical Methods and Action Research	3
KIN 509 Assessment in Physical Education	3
KIN 511 Elementary School Physical Education	3
KIN 520 Fitness and Motor Skill Acquisition	3
KIN 520L Sport Skill Proficiency	1
KIN 523 Techniques of Teaching LIFE Skills in Secondary Schools	3
KIN 589 Physical Education Instructional Strategies	6
KIN 607 Principles of Coaching	3
KIN 645 Advanced Motor Development	3
KIN 649 Adapted Physical Education	3
KIN 696 Elementary/Secondary Physical Education Internship	9
<b>Total Hours</b>	<b>48-53</b>

- Survey of Special Education Coursework: Required if not previously completed (0-3 hours)

## Education Specialist Degree in Education with a Concentration in Physical Education

The Ed.S. degree requires a minimum of 33 credit hours for the Physical Education program. A minimum GPA of 3.50 is required.

Requirements	Hours
At least 1/3 of the program shall be teaching field courses (12 hours)	
KIN 636 Current Readings in Physical Education	3
KIN 715 Advanced Field Experience in Physical Education	3
KIN 726 Supervised Research in Physical Education	3

Survey of Special Education Coursework: Required if not previously completed (0-3 hours) 0-3

ECY 600	Introduction to Exceptional Learner <sup>1</sup>	
KIN 729	Physical Education Seminar	3
<b>Additional Courses</b>		
EPR 692	Introduction to Educational Research Design	3
EPR 609	Statistical Methods and Research in Education: Intermediate	3
Select one course from the list below:		3
EDF 702	Critical Social Issues in American Education	
EDF 720	Cult and Amer Educ: Race Class and Gender	
KIN 649	Adapted Physical Education	
600-700 level Electives with permission of Advisor		9
<b>Total Hours</b>		<b>30-33</b>

<sup>1</sup> Not required if previously completed

## School of Engineering

**Dean:** Dr. J. Iwan Alexander

The School of Engineering is comprised of five departments: Biomedical Engineering; Civil, Construction, and Environmental Engineering; Electrical and Computer Engineering; Materials Science and Engineering; and Mechanical Engineering. The School offers six programs leading to a master's degree and four programs leading to a doctoral degree.

Engineering at UAB is about the brightest, most talented researchers in their fields bringing new basic science discoveries and new applied technologies to fruition. Engineering at UAB is about smart, driven students from across the city, state, and world learning together and taking advantage of a multitude of opportunities for real-world educational experiences. Engineering at UAB is about collaboration: projects that are bringing engineers together with medical professionals, business leaders, and fellow scientists from other disciplines, in order to push the envelope and discover new, innovative solutions for the challenges our world faces. The School of Engineering seeks to provide students with the opportunities you need to meet your goals.

## Interdisciplinary Engineering (PhD)

### Program Objectives

Today's professional must constantly change, adapt, focus, and navigate among disciplines to keep up with rapid market shifts and technological advances. Because of these market trends, industries are particularly interested in interdisciplinary graduate education that emphasize both breadth of knowledge and depth in a particular field. The premise of interdisciplinary programs is that students must be educated in multiple related subject areas to remain competitive and have successful careers in academia or industry. The Ph.D. Program in Interdisciplinary Engineering provides a rigorous academic curriculum including course work in two or more disciplines and unique opportunities for interdisciplinary research.

The Interdisciplinary Engineering Ph.D. Program draws upon strengths of the five departments in the School of Engineering: Biomedical Engineering, Civil Construction and Environmental Engineering, Electrical and Computer Engineering, Mechanical Engineering and Materials Science and Engineering. Students enrolled in the Interdisciplinary

Engineering Ph.D. program will gain the skills necessary to succeed as independent and productive investigators in multidisciplinary analysis and design, with applications over a wide spectrum of science, engineering, health, and medical fields. Areas of emphasis in the Interdisciplinary Engineering Ph.D. program include advanced safety engineering; computational engineering, modeling and simulation; environmental health and environmental engineering; biomedical imaging; neural engineering; information engineering and engineering management; and integrated systems and systems engineering. The program provides unique opportunities for interdisciplinary research and fosters interdisciplinary collaborative interactions between students and faculty in the School of Engineering, the Schools of Business, Medicine, and Public Health and the College of Arts and Sciences. Interdisciplinary Engineering students have opportunities to develop a plan of study and a dissertation research topic that incorporates course work and faculty expertise from two or more of disciplines across UAB.

Students enrolled in the Interdisciplinary Engineering PhD program will gain the skills necessary to succeed as independent and productive investigators in multidisciplinary analysis and design, with applications over a wide spectrum of science, engineering, health, and medical fields. The interdisciplinary program will:

- Provide a rigorous academic curriculum including coursework in two or more disciplines
- Provide collaborative interactions with students and faculty from a variety of disciplines
- Provide unique opportunities for interdisciplinary research
- Facilitate continued development of high quality research programs supported by external funding.

### Program Resources

High Performance Computing (HPC), High Fidelity Simulations (HFS), Tera/Penta-scale data mining/management/analysis, image processing, feature extraction, pattern recognition, and geometry reconstruction are the key enabling technologies in addressing 21st century science and engineering problems. These technologies are necessary for the development of cross-cutting tool kits to enhance research and development in interacting biological, chemical, medical, physical, business and finance, and engineering phenomena associated with interdisciplinary engineering research.

In response to this need, UAB has made a strategic investment in establishing an Immersive Experience Laboratory (IXL). The IXL provides software and hardware infrastructure and support for high performance parallel and distributed computing, numerical tools, information technology-based computing environments, and computational simulation to UAB and Southern Research (SR) researchers. In collaboration with UAB interdisciplinary investigators, the IXL has established 6.0+ Teraflops high performance computing clusters, including an IBM Blue gene with 2048 processors and a visualization infrastructure with stereoscopic and high resolution large displays. Both hardware and software essential for interdisciplinary engineering research can be fully supported by this equipment.

A 3D laser scanner necessary for full three-dimensional modeling and reconstruction was acquired by a collaborative team including faculty from the Schools of Engineering and Medicine. Access to this and other equipment, as well as clinical data available in the Radiology, Orthopedic, and Surgery departments and the School of Dentistry will be available to

the students and interdisciplinary teams of faculty members participating in the interdisciplinary engineering program. These teams have already been collaborating on several sponsored and un-sponsored research programs in both computational engineering and environmental health and safety engineering tracks.

Additional equipment to facilitate engineering research is available to Interdisciplinary Engineering students through the laboratories of the Departments of Materials Science & Engineering, Mechanical Engineering, Electrical & Computer Engineering, Biomedical Engineering, and Civil, Construction, & Environmental Engineering. Additional equipment is available to students through participating faculty from other Schools across campus.

## Admission Requirements

- Undergraduate or graduate degree in Engineering. Applicants who do not meet this criterion but who have an outstanding academic record in a related field, may be admitted on probation. Students admitted in this category will be required to complete a sequence of undergraduate courses (including prerequisites as appropriate) in addition to the normal requirements of the IE PhD degree
- Minimum 3.0 on a 4.0 scale on most recent degree
- GRE score in 50<sup>th</sup> percentile or higher (*Institution code – 1856. Applicable for the GRE and TOEFL only*)
- For applicants whose first language is not English, TOEFL score of 80 (with a minimum score of 20 on each subsection) or higher OR IELTS score of 6.5 or higher (*Institution code – 1856. Applicable for the GRE and TOEFL only*)
- Personal statement identifying research interest
- CV/Résumé
- 3 recommendations from academic or professional contact
- Official transcripts from each institution where college credit was received to be mailed to:

UAB Graduate School  
LHL G03; 1720 2<sup>nd</sup> Avenue South  
Birmingham, AL 35294-0013

Institutions can also submit official transcripts electronically by choosing University of Alabama at Birmingham – Graduate Admissions or using the email [gradschool@uab.edu](mailto:gradschool@uab.edu).

## International Requirements

- For applicants whose first language is not English, TOEFL score of 80 or higher (with a minimum score of 20 on each subsection) OR IELTS score of 6.5 or higher (*Institution code – 1856. Applicable for the GRE and TOEFL only*)
- Financial Affidavit of Support
- Immigration documentation if currently residing in the US

## Degree Requirements

The PhD in Interdisciplinary Engineering promotes a research-based curriculum. A minimum number of core courses will be required of all students in the program, with additional coursework directed by the student's graduate research committee based on the student's area of interest. Committee members must be selected from at least two different disciplines (with a minimum of 2 faculty from the School of Engineering), and the planned curriculum must result in cross-training in two or more disciplines.

Students entering the PhD program with a baccalaureate degree must, in keeping with UAB Graduate School Policies, complete at least 48 hours of coursework prior to admission to candidacy. Up to 16 credits of the 48 can be as non-dissertation research credits, and up to 10 credits can be as lab rotations, seminars, or directed study credits. Students entering the PhD program with a Master's degree in a related field, MD, DMD, etc., must complete at least 27 credit hours of coursework prior to candidacy. Up to 6 credits of the 27 can be non-dissertation research credits, and up to 6 credits can be as lab rotations, seminars, or directed study credits.

The UAB Graduate School also requires that students complete at least two semesters as a full time student in candidacy or accumulate at least 24 credits in research hours or coursework in candidacy prior to granting of degree. At least 24 hours of dissertation research will be required for PhD program graduates in Interdisciplinary Engineering.

All students in the IE program must complete the following core courses:

Requirements		Hours
EGR 710	Intro to Interdisciplinary EGR	3
EGR 711	Methodology for IEGR Research	3
Journal Club - 4 enrollments of 1 hour each		4
EGR 796	Journal Club in Interdisciplinary Engineering	
GRD 717	Principles of Scientific Integrity	3

A Comprehensive Exam is required of all doctoral candidates. The exam includes both written and oral components and will include presentation of the student's dissertation proposal. The exam will be administered by the student's graduate research committee. Upon successful completion of the exam and completion of at least 48 hours of coursework (in keeping with Graduate School requirements), a student is admitted into doctoral candidacy.

A dissertation showing the ability to conduct, analyze, and defend independent research must be prepared on a topic in the research field of interest. Dissertation results are expected to be submitted for refereed scholarly publication. The dissertation must comply with UAB dissertation preparation guidelines. When the dissertation has been completed, doctoral candidates will present and defend their work before their graduate research committee and the public. This defense will constitute the candidate's final exam. The results of the examination must be reported to the Graduate School at least six weeks before the commencement at which the degree is to be conferred.

## Coursework

In addition to EGR 710 Intro to Interdisciplinary EGR, EGR 711 Methodology for IEGR Research, EGR 796 Journal Club in Interdisciplinary Engineering, and GRD 717 Principles of Scientific Integrity, course selection is based on the research and career goals of the student, and curricula will vary between students. Students are guided by their faculty mentor (committee chair) and a graduate study committee composed of faculty representing an interdisciplinary team in the student's area of research interest. The coursework must include courses from at least two disciplines.

This work will be completed under the guidance of the student's faculty mentor (graduate study committee chair). An approved 6 hour internship may be substituted for 6 of the required dissertation research hours. Non-dissertation Research and Dissertation Research hours will be taken through the department of the student's faculty mentor.

## Important Program Information

- The Interdisciplinary Engineering Program is not fully online.
- Students in the program can be part time for the first 30 credit hours and some or all of these coursework hours can be online.
- After 30 hours, the student is expected to be full-time and spend at least one year in residency at UAB working on their dissertation, preferably in 3 consecutive terms.
- Students will take a minimum of 6 hours of cross-disciplinary training, which is defined as courses taken outside of the School of Engineering. These courses must be approved by IE PhD Committee prior to registration.
- Students are expected to publish and present during their PhD program.

## Additional Information

Deadline for Entry Term(s):	Fall: August 1; Spring: December 1; Summer: May 1
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE General Test (TOEFL is also required for international applicants whose native language is not English.)
Application Fee	Domestic & green card holders: \$50; International: \$60

## Contacts

Dr. Timothy M. Wick  
Graduate Program Director  
Senior Associate Dean  
tmwick (tmwick@uab.edu)@uab.edu (littlefield@uab.edu)

Kristy Barlow  
Director of Academic Programs  
School of Engineering Dean's Office  
kbarlow (kbarlow@uab.edu)@uab.edu (sswatson@uab.edu)

## Professional Degree Programs

In an effort to meet increasing industry demands for highly skilled workers, the School of Engineering offers a variety of professional programs. These programs are designed to benefit working professionals who seek to increase their qualifications through specialized degree and certificate programs. The following three tracks are available in the Master of Engineering (MEng): Construction Engineering Management; Advanced Safety Engineering and Management; and Information Engineering and Management.

## Advanced Safety Engineering and Management

**Note that this program is totally online.**

Website:	<a href="http://www.uab.edu/asem">http://www.uab.edu/asem</a>
Degree Offered:	MEng

Director:	Donald S. Burke, Ph.D.
E-mail:	mbidez@uab.edu
Program Manager	Randy Cadieux
Phone:	(205) 480-9759
E-mail	rcadieux@uab.edu

## Instructors

The MEng-ASEM graduate program is taught by a team of practicing safety and health professionals with Dr. Donald Burke serving as overall Course Director. Practitioner-Scholars facilitate online discussions on key topics of interest in their industry sector and provide industry-specific case studies. Students participate in peer-to-peer learning activities discussing current topics of interest and real world experiences using on line discussion boards.

## Admission

ASEM Admission Requirements Admission to the UAB MEng-ASEM program requires the following:

- Applicants not satisfying the grade point average requirement and/or holding a degree from a nationally accredited school may receive admission on a provisional basis, subject to assessment and recommendation of the program director. To apply, visit the UAB Graduate School's website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button.

## Additional Information

Comments:	The ASEM program is totally online. There are no campus classes, meetings, or activities. Course delivery includes asynchronous and synchronous learning modes.
Entrance Tests:	None
Number of Recommendations Required:	Three (including one personal essay and two letters of recommendation, one of which must be from your current, direct supervisor)
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins (see UAB academic calendar - <a href="https://www.uab.edu/students/academics/academic-calendar">https://www.uab.edu/students/academics/academic-calendar</a> )
Application Submission Deadline for Entry Term(s):	Fall: July 1; Spring: November 1; Summer: April 1

### For detailed program information, contact:

Randy Cadieux, MS, MEng, Program Manager and Instructor  
MEng in Advanced Safety Engineering and Management  
UAB School of Engineering, HOEN 101  
1720 2nd Avenue South, Birmingham, AL 35294-4440  
Telephone: 205-480-9759  
E-mail: [asem@uab.edu](mailto:asem@uab.edu)  
Web: <http://www.uab.edu/asem>

## Master of Engineering in Advanced Safety Engineering and Management

If a student earns a grade of C in a course, they must retake that course in order to receive credit. Students must earn a grade of B or higher on the reattempt of the course.

### Plan II - 33 hours

Requirements	Hours
ASEM 601 ASEM Seminar <sup>1</sup>	0
ASEM 610 Introduction to System Safety - Prevention through Design	3
ASEM 611 Hazard Analysis and Waste Elimination	3
ASEM 612 Engineering Risk	3
ASEM 613 Human Performance and Engineering Design	3
ASEM 614 Engineering Ethics and Acceptable Risk	3
ASEM 615 Leading through Climates of Change	3
ASEM 616 Policy Issues in Prevention through Design	3
ASEM 617 Crisis Leadership and Safety-Critical Design	3
ASEM 628 Electrical Systems Safety	3
ASEM 619 Capstone Project - Part 1	3
ASEM 620 Capstone Project - Part 2	3
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> Must be taken each semester

## Construction Engineering Management

Degree Offered:	M.Eng.
Director:	Fouad Fouad, PhD
Phone:	(205) 504-1386
E-mail:	ffouad@uab.edu
Website:	<a href="http://www.uab.edu/engineering/cem/">http://www.uab.edu/engineering/cem/</a>

### CEM Admission Requirements

Admission to the UAB CEM requires

1. Bachelors degree from a regionally accredited U.S. College or University
2. Personal interview with Program Director and Assistant Director
3. Two letters of recommendation
4. NO GRE REQUIRED if requirement number 1 is met

To apply: Visit the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button

- Should complete a Graduate Application. Visit: <https://www.uab.edu/graduate/>, and click the 'Apply Now' button to be taken to the application
- Before submitting your application, please contact Dianne Gilmer at 205-975-5848 or [digilmer@uab.edu](mailto:digilmer@uab.edu) to schedule a 30-45 minute admissions interview, which can be held over the phone or by Skype
- Use the area on the left and choose "Application for Admission as a Degree-Seeking Student"

- Under the link Application Information and the option Program Applying to: choose Construction Engineering Management
- Under Additional Information you will be asked to upload a resume

### Additional Information

Deadline for Entry Term(s):	Spring: November 1, Fall: July 1
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Two
Entrance Tests:	N/A

For detailed information, contact:

Dianne Gilmer, MEng  
 Hoehn 310, 1075 13th Street South, Birmingham, Alabama 35294-4440  
 Telephone: 205-975-5848  
 E-mail: [digilmer@uab.edu](mailto:digilmer@uab.edu)  
 Web: <http://www.uab.edu/engineering/cem>

## Masters of Engineering in Construction Engineering Management

Requirements	Hours
CECM 669 Advanced Project Management	3
CECM 670 Construction Estimating and Bidding	3
CECM 671 Construction Liability & Contracts	3
CECM 672 Construction Methods and Equipment	3
CECM 673 Project Planning and Control	3
CECM 674 Green Building Design/Construction	3
CECM 675 Advanced Construction and Engineering Economics	3
CECM 676 Construction Project Risk Management	3
CECM 688 Strategic Management and Leadership Applications in a Global Environment	3
CECM 689 Building Information Modeling (BIM) Techniques	3
<b>Total Hours</b>	<b>30</b>

## Design and Commercialization

Website:	<a href="http://www.uab.edu/engineering/home/d-c">http://www.uab.edu/engineering/home/d-c</a>
Degree Offered:	MEng
Director:	Alan W. Eberhardt
E-mail:	<a href="mailto:aerberhar@uab.edu">aerberhar@uab.edu</a>
Program Contact:	Julie Calma
Phone:	(205) 996-0165
E-mail:	<a href="mailto:jcalma@uab.edu">jcalma@uab.edu</a>

### Admission Requirements

Admission to the UAB MEDC requires the following:

- An undergraduate degree with a minimum 3.0 GPA from a regionally accredited school
- Undergraduate degree does not have to be in engineering
- Minimum GRE scores of 150
- Three letters of recommendation

To apply, visit the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button. After creating an account you will be able to, complete and submit your online application

## Additional Information

For additional program information, please contact:

Julie D. Calma
Office Services Specialist III
Biomedical Engineering
The University of Alabama at Birmingham
HOEN 361, 1075 13th Street South
Birmingham, AL 35294
P: (205) 996-0165
<a href="mailto:jcalma@uab.edu">jcalma@uab.edu</a>

## Master of Engineering in Design and Commercialization

Requirements	Hours
BME 630 Engineering Design and Commercialization	3
ME 577 Systems Engineering	3
Innovation-Commercialization Project I	1
EGR 693 Innovation-Commercialization Project I	
MBA 681 From Idea to IPO	3
MBA Directed Study	1
MBA 690 Directed Study	
EGR 690 Special Topics	3
EE 605 Embedded Systems for Industrial Scholars	3
Approved EGR 500 or 600 level course	3
Innovation-Commercialization Project II	1
EGR 694 Innovation-Commercialization Project II	
MBA 673 Planning and Pitching a New Business Concept	3
MBA Independent Study	1
MBA 691 MBA Independent Study	
MSE 690 Special Topics In (Area)	3
Approved EGR 500 or 600 level course	3
Innovation-Commercialization Project III	1
EGR 695 Innovation-Commercialization Project	
MBA 690 Directed Study	3
MBA Independent Study	1
MBA 691 MBA Independent Study	
<b>Total Hours</b>	<b>36</b>

## Information Engineering and Management

Degree Offered:	M.Eng.
Director:	Dr. Dale W. Callahan, PE
Phone:	(205) 934-8480
E-mail:	<a href="mailto:iem@uab.edu">iem@uab.edu</a>
Website:	<a href="http://www.uab.edu/iem">http://www.uab.edu/iem</a>

## IEM Admission Requirements

### Admission to UAB Information Engineering and Management requires:

1. An undergraduate degree from a regionally accredited university.
2. Preference is given to engineering, math, science or technical-related undergraduate degrees.
3. Original transcripts from every college/university attended should be requested by the applicant and sent directly to the UAB Graduate School.
4. Relevant industry work experience as evidenced by your resume and three recommendations.
5. An essay answering the questions listed on the IEM website Apply Now page.
6. A video introducing yourself to IEM. The video should be less than 5 minutes in length. Please tell us a little about yourself, what you've done professionally and why you want to be admitted to IEM. The video should be posted to YouTube, marked unlisted with a limited access URL and the link emailed to [iem@uab.edu](mailto:iem@uab.edu).
7. An interview with the IEM admissions committee may also be required.
8. No GMAT/GRE required for admission to IEM.

## To Apply:

**Whether you are on campus or online, or some of both, here is what all entering clients need to do:**

To Apply: Whether you are on campus or online, or some of both, here is what all entering clients need to do: Visit the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button to complete an application.

- Create an account and complete the application by filling out all necessary sections including biographical information, educational background information, providing the information of three references (the system will send an electronic request to each reference), uploading an essay which includes answers to the above questions, uploading a current resume, and providing payment for the application.
- IEM Requirements: The photograph and video link should be e-mailed to IEM directly at [iem@uab.edu](mailto:iem@uab.edu). ([iem@uab.edu](mailto:iem@uab.edu))
- We encourage applicants to complete their application early to make sure they are considered for admission as soon as possible. A complete application means that all materials (transcripts, essay, resume, etc.) have been received by the Graduate School and the video should be uploaded to YouTube.
- Acceptance is determined by the IEM Admissions Committee.

## Late Applicants

Applicants who miss the Graduate School's deadline for admission may apply as "non-degree seeking" in **Apply Yourself** and pay an additional application fee. Late applicants are still required to submit the paperwork outlined above. The non-degree seeking deadline is typically 2-4 weeks before classes begin.

## Additional Information

Number of Recommendations Required: Three

Entrance Tests: N/A

**For more information**, contact IEM Director-Dr. Dale Callahan, PE or IEM Program Manager-Maria Whitmire, MEng, CAP-OM; IEM, Hoehn 370, 1075 13th Street South, Birmingham, Alabama 35294-4440. Telephone: 205-934-8480  
E-mail: [iem@uab.edu](mailto:iem@uab.edu)  
Web: [www.uab.edu/iem](http://www.uab.edu/iem)

## Masters in Engineering/Information Engineering and Management

### Plan II - 33 hours

Requirements	Hours
IEM 601 Introduction to IEM	1
IEM 602 Leading Collaborative Teams	1
IEM 603 Communication for Technology Executives	1
IEM 610 Communication for Technology Professionals	3
IEM 611 Leading Technical Organizations	3
IEM 612 Project Leadership	3
IEM 620 Technical Entrepreneurship	3
IEM 625 Technology and Innovation	3
IEM 630 Systems Engineering	3
IEM 631 Operational Decision-Making	3
IEM 645 Financial Concepts for Entrepreneurs	3
IEM 646 Strategic Planning	3
IEM 695 IEM Design Project	3
<b>Total Hours</b>	<b>33</b>

## Biomedical Engineering

### Biomedical Engineering (PhD, MSBME, MSBME with Certificate in Technology Commercialization and Entrepreneurship)

Degrees Offered: PhD, MSBME, MSBME with Certificate in Life Sciences Entrepreneurship

Phone: (205) 996-6936

E-mail: [uabbmegrad@uab.edu](mailto:uabbmegrad@uab.edu)

Website: [www.uab.edu/bme](http://www.uab.edu/bme)

## Additional Information

Deadline for Entry Term(s): Fall

Deadline for All Application Materials to be in the Graduate School Office: December 15

Number of Evaluation Forms Required: Three

Entrance Tests: GRE (TOEFL is also required for international applicants whose native language is not English)

Comments: Students are rarely admitted for the Spring term

For detailed information, contact Dr.Ho-Wook Jun, Associate Professor, BME Graduate Program Director, UAB Department of Biomedical Engineering, 1825 University Blvd., Shelby Biomedical Research Building, 806 Birmingham, AL 35294-2182.

Telephone (205) 996-6936

E-mail [uabbmegrad@uab.edu](mailto:uabbmegrad@uab.edu)

Web [www.uab.edu/bme](http://www.uab.edu/bme)

## Master of Science in Biomedical Engineering

A minimum GPA of 3.20 is required.

### Plan I - 30 with Thesis

Requirements	Hours
BME 517 Engineering Analysis or ME 661 Math Methods in EGR I	3
BME 670 Quantitative Physiology	3
BST 621 Statistical Methods I	3
BME Elective 500-697	3
Life Science Elective at the 500+ level	3
BME/EGR/Math/Life Science Elective at the 500+ level	3
<b>BME Seminar</b>	3
BME 601 Seminar in Biomedical Engineering	
BME 698 Non-Thesis Research	3
<b>Thesis Research</b>	6
BME 699 Master's Degree Thesis Research	
<b>Total Hours</b>	<b>30</b>

### Plan II - 33 hours

Requirements	Hours
BME 517 Engineering Analysis or ME 661 Math Methods in EGR I	3
BME 670 Quantitative Physiology	3
BST 621 Statistical Methods I	3
BME Elective 500-697	3
BME/EGR/MA/Life Science Elective at the 500+ level <sup>1</sup>	9
Life Science 500+ level	3
<b>BME Seminar</b>	3
BME 601 Seminar in Biomedical Engineering	
BME 698 Non-Thesis Research	6
<b>Total Hours</b>	<b>33</b>

<sup>1</sup> BME 698 may be taken for this elective

## PhD Program

The PhD degree prepares students for careers in industry and academics. Students entering the doctoral program will possess a BS, MS, or be currently enrolled in the DMD/PhD or MD/PhD program at UAB.

Admission to the PhD program is competitive, and successful applicants will usually present scores of at least 156 on the verbal and at least 159 on the quantitative sections of the GRE General Test. Typical students have a graduate GPA of 3.5 or greater and have a significant research

experience. Students admitted to the doctoral program typically receive a competitive stipend that usually includes payment of tuition.

Students can be admitted to the PhD program with a BS degree in a field of biomedical engineering or closely-related discipline. Students with undergraduate degrees in the physical sciences, life sciences, or mathematics can also be considered to admission. Students entering the PhD program with a BS are required to complete at least 72 semester hours of graduate work, including 48 semester hours of graduate coursework, and a minimum of 24 hours of dissertation research (BME 799) earned over at least two semesters in candidacy. All students are required to take BME 517 Engineering Analysis, BME 770 Quantitative Physiology, at least one Biostatistics course (BST 621 Statistical Methods I), GRD 717 Principles of Scientific Integrity and 6 semesters of BME seminars (BME 701 Seminar in Biomedical Engineering). The remaining coursework should be a combination of life sciences, biomedical engineering, or mathematics elective courses that provide sufficient breadth and depth to gain the necessary graduate level, interdisciplinary knowledge to complete dissertation research. Three peer-reviewed first-author publications are required for completion of the PhD in the Department of Biomedical Engineering.

Students can be admitted to the PhD program following completion of a Master's Degree in BME or closely-related discipline. Students entering the PhD program with a MS are required to complete at least 51 semester hours of graduate work beyond the Master's degree including 27 semester hours of coursework and 24 hours of dissertation research (BME 799) earned over at least two semesters in candidacy. All students are required to take BME 517 Engineering Analysis, BME 770 Quantitative Physiology, BST 621 Statistical Methods I, GRD 717 Principles of Scientific Integrity, if not taken as part of their Master's program, and three semesters of BME 701 BME Seminar. The remaining coursework should be a combination of life sciences, biomedical engineering, or mathematics elective courses that provide sufficient breadth and depth to gain the necessary graduate level, interdisciplinary knowledge to complete dissertation research. A total of three first-author original research articles in peer-reviewed journals based on the student's dissertation research are required for completion of the PhD in the BME Department. If one article was published as part of the MSBME degree, then two articles are required for the PhD degree.

## Civil, Construction and Environmental

The Civil, Construction, and Environmental Engineering (CCEE) department offers both a master and doctoral level program, and cutting-edge research covering various facets of Civil Engineering theory and practice. A knowledgeable and experienced group of faculty members work closely with students to provide them with the tools required to succeed professionally in globally-competitive work environments.

### Civil Engineering

Degree Offered:	MSCE, PhD
Director:	Dr. Robert W. Peters
Phone:	(205) 934-8430
Fax:	(205) 934-9855
E-mail:	rwpeters@uab.edu
Website:	<a href="http://www.uab.edu/engineering/">http://www.uab.edu/engineering/</a>

## Admission Requirements

In addition to the UAB Graduate School admission requirements, requirements for admission to the program leading to the Master of Science in Civil Engineering degree include the following five criteria:

1. An undergraduate engineering degree from an ABET accredited program. Applicants who do not meet this criterion but who have an outstanding academic record in an engineering degree program not accredited by ABET, or in a baccalaureate degree program in a related field, may be admitted on probation. Students admitted in this category will be required to complete a sequence of undergraduate courses in addition to the normal requirements of the MSCE degree. This set of extra requirements will be specified in writing at the time of admission to the program.
2. GPA of 3.0 or better on a 4.0 scale in all undergraduate degree major courses attempted;
3. Three letters of evaluation concerning the applicant's previous academic and professional work; and
4. Submission of scores achieved on the GRE General Test. Admission to the program is competitive and is based on all available evidence; for admission in good academic standing, scores above 160 on each component of GRE General Test are preferred. Minimum scores of 550 on the Test of English as a Foreign Language (TOEFL) and a 3.5 on the Test of Written English (TWE) are also required for those applicants whose native language is not English. These test scores will be used primarily if an applicant fails to meet minimum standards for admission in good standing and is being considered for admission on probation.
5. Verification of registration by examination as a Professional Engineer (PE) will satisfy criteria 4 above.

## Additional Information

For detailed information, contact:

Jennifer A. Vinson, Administrative Associate (jav@uab.edu), UAB Department of Civil, Construction, and Environmental Engineering, HOEN 140, 1720 2nd Ave., S., Birmingham, AL 35294-4440. Physical location: 140 Hoehn Building, 1075 13th Street South, Birmingham, AL 352015. Telephone # (205) 934-8430.

## CE Specialty Certificate Programs

Category A certificates are offered by the Civil, Construction, and Environmental Engineering Department. Any undergraduate or graduate student in good standing who is pursuing a Civil Engineering degree (BSCE, MSCE, PhD) may elect to simultaneously complete the requirements of his or her degree program and the Certificate Program. These certificates are listed on student transcripts and in the university graduation bulletin. Certificates can be earned in:

1. Structural Engineering
2. Environmental Engineering
3. Transportation Engineering
4. Sustainable Engineering
5. Construction Engineering Management
6. Geotechnical Engineering

Civil Engineering (BSCE) graduates who complete the Certificate Program will have greater depth in a specific technical area. The certificates also allow a means for practicing engineers to acquire

expertise beyond a Bachelor's degree, and have it formally recognized without completing a program leading to a Master's degree. This technical expertise will enhance their proficiency and marketability. Up to 12 graduate level credit hours taken for a certificate may be applied toward the MSCE degree.

Students who wish to pursue a CE Certificate must be admitted to the Department as either undergraduate or graduate students (BSCE or MSCE program). Students who are not currently enrolled in the civil engineering program may be admitted as a non-degree seeking student to earn a Certificate.

Certificates require a minimum of 15 semester hours. They consist of one required course (which may also count toward the BSCE degree at UAB) and four graduate level elective courses in the area of specialization. Courses that can be applied towards the Certificate can be found at <http://www.uab.edu/engineering/home/departments-research/civil>

For more information, please contact Jennifer A. Vinson, Administrative Associate, 140 Hoehn Engineering Building, 1075 13th Street South, telephone (205) 934-8430, e-mail [jav@uab.edu](mailto:jav@uab.edu)

## Master in Engineering Programs

The Department of Civil, Construction, and Environmental Engineering is pleased to offer three tracks under the Master in Engineering

### Master of Engineering in Construction Engineering Management Program

Degree Offered:	Master of Engineering - Construction Engineering Management
Interim Director:	Dr. Fouad H. Fouad
Phone:	(205) 875-5848
Assistant Director	Dianne Gilmer
E-mail:	<a href="mailto:digilmer@uab.edu">digilmer@uab.edu</a> ( <a href="mailto:wah@uab.edu">wah@uab.edu</a> )
Web site:	<a href="http://www.uab.edu/engineering/">http://www.uab.edu/engineering/</a>

**This program is designed to enhance the engineering and business qualifications of working professionals interested in project and company management.**

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master in Engineering – Construction Management degree include the following:

1. Must have a Bachelor's degree from an accredited U.S. College or University or equivalent
2. Must have an Undergraduate GPA of 3.0 or higher (individuals not meeting this requirement may start on a probationary status with strong interview and recommendations)
3. No GRE is required
4. Must submit at least two letters of recommendation
5. Must schedule an interview with the Program Director or Assistant Program Director
6. International students who do not have a degree from an accredited U.S. Institution are required to submit TOEFL scores.
7. Must successfully complete at least 30 semester hours of CECM graduate credit

### Master of Engineering in Structural Engineering Program

Degree Offered:	Master of Engineering - Structural Engineering
Director:	Dr. Christopher Waldron
Phone:	(205) 934-8435
Fax:	(205) 934-9855
E-mail:	<a href="mailto:cwaldron@uab.edu">cwaldron@uab.edu</a>
Web site:	<a href="http://www.uab.edu/engineering/">http://www.uab.edu/engineering/</a>

**This program is designed to increase the technical knowledge of engineering professionals working in, or desiring to work in, the broad field of structural engineering.**

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master of Engineering – Structural Engineering degree include the following:

1. Must have an engineering bachelor's degree from an ABET accredited U.S. college or university
2. Must have an Undergraduate GPA of 3.0 or higher (individuals not meeting this requirement may start on a probationary status with strong interview and recommendations)
3. No GRE required
4. Must submit at least two letters of recommendation
5. Must schedule an interview with the Program Director or Coordinator
6. Must successfully complete at least 30 semester hours of graduate credit

### Masters of Engineering in Structural Engineering

Requirements	Hours
<b>Students must complete up to 30 hours with the classes listed below</b>	<b>30</b>
All CESE courses at the 600 level	
All CECM courses with advisor-approval 600-791 (maximum of 9 hours)	
All CE courses with advisor-approval 500-791 (maximum of 12 hours)	
<b>Total Hours</b>	<b>30</b>

### Master of Engineering in Sustainable Smart Cities Program

Degree Offered:	Master of Engineering - Sustainable Smart Cities
Director:	Dr. Jason Kirby
Phone:	(205) 934-8479
Fax:	(205) 934-9855
E-mail:	<a href="mailto:jtkirby@uab.edu">jtkirby@uab.edu</a>
Web site:	<a href="http://www.uab.edu/engineering/">http://www.uab.edu/engineering/</a>

#### Requirements

In addition to the Graduate School admission requirements, requirements for admission to the program leading to the Master of Engineering – Sustainable Smart Cities degree include the following:

1. A Bachelor's degree (or equivalent) from an recognized institution of higher education in an appropriate subject / related science including

but not limited to: Urban Design and Planning, Political Science, Geography, Environmental Science, Environmental Management, Public Health, Social Sciences, Criminal Justice, Information and Communication Technology, and/or Engineering.

- Candidates who have related employment or substantial industrial experience, with a demonstrable interest in or a commitment to urban planning, sustainability and environmental management issues, and / or smart city approaches will also be considered.
- International students who do not have a degree from an accredited U.S. institution are required to submit TOEFL scores.
- All program students will be required to register / enroll at both UAB and SU. Details on the Graduate application packet are available online.

## Requirements for a Masters of Engineering/Sustainable Smart Cities

Requirements	Hours
CE 600 Principles of Sustainable Development	3
CE 602 Introduction to Sustainable Smart Cities	3
CE 604 Low-Carbon and Renewable Energy Systems for Smart Cities	3
CE 606 Managing Natural Resources and Sustainable Smart Cities	3
CE 608 Green Infrastructure and Transportation	3
CE 610 Health and Liveability	3
CE 612 Green Buildings	3
CE 614 Smart Cities Technologies	3
CE 616 Big Data and Smart Cities	3
CE 618 Research Methods and Project Planning	3
CE 620 Sustainable Smart Cities Research Project	3
<b>Total Hours</b>	<b>33</b>

## Master of Science in Civil Engineering Program Requirements

The following minimum requirements apply to the plan of study for a student who has earned a baccalaureate degree in civil engineering. A student with an undergraduate degree in another field may also be accepted into the civil engineering program but will normally have to take additional preparatory coursework as part of an expanded plan of study. Continuous enrollment for at least 3 credit hours per term is required. Students receiving a research assistantship are required to be enrolled as full-time students every semester. A full-time student is one who is enrolled in at least 9 credit hours per semester. **Enrollment in the Civil Engineering Graduate Seminar (CE 641) is required at least once prior to graduation.**

## Master of Science in Civil Engineering Plan I (Thesis Option)

- In addition to the general Graduate School requirements, the student must successfully complete at least 33 semester hours of graduate credit, including:
  - A minimum of 18 semester hours in civil engineering;
  - Up to 6 semester hours in disciplines outside civil engineering, such as other engineering disciplines, mathematics, biology, earth science, physics, urban affairs, or public health.
  - A minimum of 9 hours of CE 699-Masters Thesis Research.

- The student must pass a comprehensive examination on the content of the program. This examination may be written, oral, or both and shall include an oral defense of a thesis.
- All Plan I Master's students are required to complete online modules covering the 9 topic areas of RCR research integrity. The modules can be accessed online at <https://www.citiprogram.org>.**

## Plan II (Nonthesis Option):

- The student must successfully complete at least 33 semester hours of graduate credit including:
  - A minimum of 24 semester hours in civil engineering;
  - Up to 6 semester hours in disciplines outside civil engineering, such as; other engineering disciplines, mathematics, biology, earth sciences, physics, chemistry, or public health; and
  - A minimum of 3 hours of CE 698 – Non-Thesis Research under the direction of the graduate study committee chair, resulting in a committee approved written report.
- The student must pass a comprehensive examination on the content of the program. This examination may be written, oral, or both and shall include an oral defense of the nonthesis research project.

## Areas of Specialization

The department offers specialization programs in the fields of structural engineering/structural mechanics, environmental engineering, transportation engineering, and construction engineering management. Supporting courses are offered in geotechnical engineering, optimization, engineering law and other areas. If a student chooses to declare a concentration, the student must choose from the courses listed below the appropriate concentration to fulfill the required 18 hours (Plan 1) or 24 hours (Plan 2) within civil engineering.

Enrollment in the Civil Engineering Graduate Seminar series (

**CE 641 / CE 741**) is required of all graduate students at least once prior to graduation.

## Concentration in Structural Engineering

Requirements	Hours
<b>Select 18 hours for Plan I or 24 hours for Plan II</b>	
CE 516 Mechanical Vibrations	3
CE 520 Advanced Mechanics	3
CE 526 Foundation Engineering	3
CE 544 Civil Engineering Analysis II	3
CE 553 Design of Wood Structures	3
CE 554 Design of Masonry Structures	3
CE 556 Prestressed Concrete Design	3
CE 557 Concrete Technology	3
CE 560 Structural Mechanics	3
CE 561 Introduction to the Finite Element Method	3
CE 562 Advanced Structural Analysis	3
CE 564 Structural Dynamics	3
CE 590 Special Topics in (Area) <sup>1</sup>	3
CE 612 Theory of Elasticity	3
CE 617 Theory of Plates and Shells	3
CE 641 Civil Engineering Seminar <sup>2</sup>	0
CE 650 Advanced Structural Steel	3
CE 655 Advanced Reinforced Concrete	3

CE 690	Special Topics in (Area) <sup>1</sup>	1-3
CE 691	Individual Study in (Area)	1-4

<sup>1</sup> or any CE 590/690 IITS course offerings from UAH, USA, and UA campuses

<sup>2</sup> requirement of the Department for all graduate students to take at least once prior to graduation

## Concentration in Environmental Engineering

Requirements		Hours
<b>Select 18 hours for Plan I or 24 hours for Plan II</b>		
CE 530	Water Supply/Drainage Design	3
CE 531	Energy Resources	3
CE 533	Solid and Hazardous Wastes Management	3
CE 534	Air Quality Modeling and Monitoring	3
CE 537	Environmental Experimental Design and Field Sampling	3
CE 580	Introduction to Water and Wastewater Treatment	3
CE 585	Engineering Hydrology	3
CE 590	Special Topics in (Area) <sup>1</sup>	3
CE 600	Sustainable Construction	3
CE 608	Green Building Design	3
CE 610	The Engineered Environment	3
CE 636	Stormwater Pollution Management	3
CE 640	Wastewater Treatment Engineering	3
CE 641	Civil Engineering Seminar <sup>2</sup>	0
CE 690	Special Topics in (Area) <sup>1</sup>	1-3
CE 691	Individual Study in (Area)	1-4

<sup>1</sup> or any CE 590/690 IITS course offerings from UAH, USA, and UA campuses

<sup>2</sup> requirement of the Department for all graduate students to take at least once prior to graduation

## Concentration in Transportation Engineering

Requirements		Hours
<b>Select 18 hours for Plan I or 24 hours for Plan II</b>		
CE 543	Pavement Design & Construction	3
CE 590	Special Topics in (Area) <sup>1</sup>	3
CE 621	Transportation Engineering Seminar	1
CE 622	Traffic Flow Theory	3
CE 624	Simulation Models for Transportation Applications	3
CE 625	Intelligent Transportation Systems	3
CE 646	Traffic Engineering Operations	3
CE 641	Civil Engineering Seminar <sup>2</sup>	0
CE 648	Urban and Transportation Planning	3
CE 690	Special Topics in (Area) <sup>1</sup>	1-3
CE 691	Individual Study in (Area)	1-4

<sup>1</sup> or any CE 590/690 IITS course offerings from UAH, USA, and UA campuses

<sup>2</sup> requirement of the Department for all graduate students to take at least once prior to graduation

The Department offers a variety of courses due to the focus areas under the Master of Science in Civil Engineering, which makes it difficult to

designate all the courses in which students may enroll. Therefore, the lists above are not all-inclusive.

## Required Courses for Specialization in Construction Engineering Management

In addition to the MSCE program requirements, the following undergraduate classes, or Program Director approved course equivalents (plus all associated prerequisites) are generally required of all MSCE students specializing in construction management.

Requirements		Hours
CE 395	Engineering Economics	3
CE 497	Construction Engineering Management	3

## PhD Program Requirements

### Doctor of Philosophy in Civil Engineering

This is a joint program with the University of Alabama in Huntsville (UAH). A typical student entering the program will already have an undergraduate degree in Civil Engineering from an ABET accredited program.

The program requires 51 credit hours of coursework beyond the baccalaureate level or 27 credit hours of coursework beyond the master's degree, plus a minimum of 24 credit hours of dissertation research.

**Enrollment in the Civil Engineering Graduate Seminar (CE 741) at least once prior to graduation is required. All PhD students are required to enroll in and complete GRD 717 - Principles of Scientific Integrity before their qualifying exams.** A minimum of 6 credit hours must be taken from the UAH campus and may be taken through the Intercampus Interactive Telecommunications System (IITS) at UAB, Distance Learning (DL) courses from UAH, or Web-based Instruction from UAH.

A comprehensive examination is required of all doctoral candidates. This examination is given after (a) all coursework is completed, and (b) the student's Graduate Committee, which consists of at least five faculty representatives (including at least 2 faculty members from UAB & and 1 faculty member from UAH), deems the student to have adequate preparation in the major and minor fields of study. The examination consists of a written part and an oral part. The written examination is conducted by the student's Graduate Committee and administered on the resident campus. During the oral portion of the examination, the student presents his/her dissertation proposal. The Comprehensive Examination (written) may only be taken a maximum of two times, and if the student does not pass the exam, the student will not be allowed to continue.

A final public defense of the doctoral dissertation research and a written dissertation is required of all Civil Engineering doctoral students.

All required coursework must be selected from the list below.

Requirements		Hours
CE 712	Theory of Elasticity	3
CE 715	Theory of Elastic Stability	3
CE 717	Theory of Plates and Shells	3
CE 721	Transportation Engineering Seminar	1
CE 722	Traffic Flow Theory	3
CE 723	Non-Motorized Transportation Design and Planning	3
CE 724	Simulation Models for Transportation Applications	3
CE 725	Intelligent Transportation Systems	3

CE 731	Environmental Law	3
CE 732	Industrial Waste and Wastewater Treatment	3
CE 736	Stormwater Pollution Management	3
CE 738	Water and Wastewater Chemistry	3
CE 739	Sediment Sources and Controls	3
CE 740	Wastewater Treatment Engineering	3
CE 749	Engineering Liability	3
CE 750	Advanced Structural Steel	3
CE 755	Advanced Reinforced Concrete	3
CE 758	Engineering Management	3
CE 763	Finite Element Methods	3
CE 781	Environmental Chemistry	3
CE 782	Water Treatment Engineering	3
CE 783	Water and Wastewater Treatment Processes Lab	3
CE 786	Engineering Hydrogeology	3
CE 787	Stormwater Detention Pond Design	3
CE 790	Special Topics in (Area)	1-3
CE 791	Individual Studies (In Area)	1-4

**Other Requirements**

CE 741	Civil Engineering Seminar	0
GRD 717	Principles of Scientific Integrity	3
Dissertation Research <sup>1</sup>		24

CE 799	Dissertation Research	
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PhD Students are required to complete two 3-credit hour courses offered from UAH and may be taken through IITS, at UAB, UAH Distance Learning, or web-based instruction from UAH	6
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UAB PhD Students can also take CE 590 and CE 690 courses

<sup>1</sup> Minimum of 24 hours of Dissertation Research

## Electrical and Computer Engineering

**Chair:** Murat M. Tanik, PhD

The Department of Electrical and Computer Engineering offers a Master of Science in Electrical Engineering (MSEE) degree and a PhD in Computer Engineering shared with the UAH Electrical and Computer Engineering Department.

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Computer Engineering (p. 122)

## Electrical Engineering

Degree Offered:	MSECE
Director:	Karthikeyan Lingasubramanian
Phone:	(205) 934-8440
E-mail:	klinga@uab.edu
Website:	<a href="http://www.uab.edu/engineering/ece/graduate">http://www.uab.edu/engineering/ece/graduate</a>

## Admission Requirements

Requirements for admission to the electrical engineering master's degree program include the following:

1. A bachelor's degree in an accredited electrical, computer engineering, electrical and computer engineering or a bachelor's degree acceptable to the graduate faculty in Electrical and Computer Engineering.
2. A 3.0 on a 4.0 scale or better GPA in all junior and senior electrical and computer engineering and mathematics courses attempted;
3. Three letters of evaluation concerning the applicant's previous academic and professional work; and
4. An acceptable score on the GRE General Test and the TOEFL, if applicable.
5. Students not having a bachelor's degree in electrical and computer engineering, or electrical or computer engineering, may be required to complete prerequisite courses based on their prior coursework and their plan of study.

## Financial Support

Limited financial assistance may be available for well-qualified students admitted into the MSECE program. In order to be considered for financial aid for the coming academic year, the completed application materials must usually be received at UAB by April 1.

There are a number of minority fellowships available through the Graduate School. Contact the UAB Graduate School directly for further information.

## Additional Information

Deadline for Entry Term(s):	Deadline for Entry Term(s):
Deadline for All Application Materials to be in the Graduate School Office:	Fall: August 1; Spring: December 1; Summer: May 1
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)
Comments	GRE and evaluation forms requirements waived for persons holding registration as professional engineers

## Master of Science in Electrical and Computer Engineering

The Master of Science in Electrical Engineering (MSECE) prepares students for a professional career in industry or entry into a doctoral program or professional school. The MSECE program builds upon the broad foundation provided by a Bachelor of Science in Electrical Engineering by supplying depth in specific area of electrical and computer engineering through advanced coursework and a thesis or project experience.

## Program Requirements

Assuming that a student possesses appropriate academic preparation for this degree, 33 semester hours of coursework will be required beyond the bachelor's degree. This work must be distributed as follows:

## Plan I (Thesis Option)

1. Twelve semester hours of graduate-level courses appropriate to the student's area of technical specialization
2. Six semester hours of graduate-level courses in an area related to the student's area of technical specialization; and
3. Six semester hours of courses having a mathematical emphasis;
4. Successful completion and oral defense of a thesis developed through registration for at least nine semester hours of EE 699.

## Plan II (Nonthesis Option)

1. Twelve semester hours of graduate-level courses appropriate to the student's area of technical specialization;
2. Twelve semester hours of graduate-level courses in an area related to the student's area of professional emphasis (these courses may address technical subjects or subject matter appropriate to an emphasis in engineering management or entrepreneurship);
3. Six semester hours of courses having a mathematical emphasis;
4. Successful completion of a project developed through registration for at least 3 semester hours of EE 697.

## Computer Engineering

Degree Offered:	PhD
Director:	Dr. Karthikeyan Lingasubramanian
Phone:	(205) 934-8440
E-mail:	klinga@uab.edu
Website:	<a href="https://www.uab.edu/engineering/ece/">https://www.uab.edu/engineering/ece/</a>

## Program Information

The PhD degree prepares students for professional and research careers in industry and academia. The PhD in Computer Engineering is awarded by UAB and is offered through a program shared with the University of Alabama in Huntsville (UAH), allowing both UAB and UAH to contribute to the program.

## Admission Requirements

Requirements for admission to the PhD program include the following:

1. A bachelor's degree in an accredited electrical or computer engineering program or a bachelor's degree in a related program acceptable to the graduate faculty in Electrical and Computer Engineering;
2. A score of at least 150 each on the verbal and quantitative sections of the Graduate Record Examination (GRE);
3. An acceptable score on the TOEFL examination for international students whose native language is not English;
4. An overall GPA of at least 3.0 on a 4.0 point scale, or at least 3.0 for the last 60 semester hours completed; and
5. Three letters of evaluation concerning the applicant's previous academic and professional work.

Students not having a bachelor's degree in electrical or computer engineering may be required to complete prerequisite courses.

## Financial Support

Fellowships and/or assistantships may be available for well-qualified students admitted into the PhD program. In order to be considered for financial aid for the coming academic year, the completed application materials must usually be received at UAB by April 1.

There are a number of minority fellowships available through the Graduate School. Contact the UAB Graduate School directly for further information.

## Additional Information

Deadline for Entry Term(s):	Each semester
Deadline for All Application Materials to be in the Graduate School Office:	Fall: August 1; Spring: December 1; Summer: May 1
Number of Evaluation Forms Required:	Three
Entrance Tests	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact

Dr. Karthikeyan Lingasubramanian, Graduate Program Director  
UAB Department of Electrical and Computer Engineering, BEC 255D  
1720 Second Avenue South, Birmingham, Alabama 35294-1170.

Telephone: 205-934-8440  
E-mail: [klinga@uab.edu](mailto:klinga@uab.edu)

Web: <https://www.uab.edu/engineering/ece/>

## Course Descriptions

See the graduate catalog of the University of Alabama at Huntsville (UAH) for doctoral courses at that university.

Unless otherwise noted, all courses are for 3 semester hours of credit. Course numbers preceded with an asterisk indicate courses that can be repeated for credit, with stated stipulations.

## Program Requirements

The course of study leading to the PhD includes a minimum of 48 semester hours of coursework beyond the bachelor's degree (excluding dissertation research). A student's dissertation committee may allow appropriate coursework pursued in completing a master's degree to be counted towards the 48 hour coursework requirement. A maximum of nine semester hours credit of thesis/research work from the master's degree may be counted toward the 48 hour coursework requirement for the PhD. PhD requirements include the following:

1. A major consisting of a minimum of 18 semester hours of approved coursework in computer engineering;
2. A minor consisting of a minimum of 12 semester hours of approved coursework in mathematics, theoretical or formal methods as related to computer engineering;
3. A minor consisting of a minimum of 12 semester hours of approved coursework in electrical or computer engineering;
4. Additional coursework consisting of a minimum of 6 semester hours of approved coursework in supportive fields;

5. Successful completion of a preliminary examination;
6. Successful completion of a qualifying examination that includes a presentation of the dissertation research proposal. Successful completion of the qualifying examination leads to admission to candidacy;
7. Successful completion of a minimum of 18 semester hours in EE 799 Dissertation Research; and
8. Successful completion of a final examination on the dissertation.

## Materials Science and Engineering

Degree Offered:	PhD, MSMtE
Director:	Dr. Charles Monroe
Phone:	(205) 975-4128
E-mail:	camonroe@uab.edu
Website:	<a href="http://www.uab.edu/engineering/home/departments-research/mse">http://www.uab.edu/engineering/home/departments-research/mse</a>

### Admission Requirements

In addition to the general Graduate School admission requirements, requirements for admission to the MSMtE and PhD. graduate programs include the following criteria:

1. A 3.0 (A = 4.0) or better GPA on all undergraduate degree major courses attempted
2. MSE evaluates the three scores reported on the GRE revised General Test (as of August 2012):
  - a Verbal Reasoning score reported on a 130-170 score scale, in 1-point increments
  - a Quantitative Reasoning score reported on a 130-170 score scale, in 1-point increments
  - an Analytical Writing score reported on a 0-6 score scale, in half-point increments.

MSE recommends that a student receive a minimum GRE quantitative score of 148/170 (600/800 on the old scale); a verbal score of 153/180 (500/800 on the old scale) and a score of 3/6 on the analytical writing

TOEFL is an additional requirement for international students. The revised TOEFL scoring scale for an internet based TOEFL test (iBT) is 0-120 which includes:

- Reading Section (Score of 0-30)
- Listening Section (Score of 0-30)
- Speaking Section (Score of 0-30)
- Writing Section (Score of 0-30)

MSE requires a minimum TOEFL score of 80-120 (20 in each section) to be considered for admission and financial support. For applicants who report TOEFL scores based on a paper test or a computer test, the scores will be compared to the iBT scale.

### Preparatory Content

A student seeking a graduate degree in Materials must demonstrate competence at the undergraduate level in the areas of engineering materials, physical behavior of materials, thermodynamics, and mechanical behavior of materials. Students may be exempted from individual courses or examination if they demonstrate that they possess the knowledge from that course, usually with a grade of a "B" or better. However, the burden of proof is on the student. He/she may accomplish this by passing a pre-requisite examination on the portion of the following course content depending on the student's academic background. The courses that fulfill the preparatory requirements are:

Requirements	Hours
MSE 280 Engineering Materials	3
MSE 281 Physical Materials I	4
MSE 380 Thermodynamics of Materials	3
MSE 381 Physical Materials II	3
MSE 382 Mechanical Behavior of Materials	3

### Additional Information

Deadline for Entry Term(s):	Each semester and summer
Deadline for All Application Materials to be in the Graduate School Office - Fall Semester:	March 1st
Deadline for All Application Materials to be in the Graduate School Office - Spring Semester:	August 31st
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

Comments:

### Master of Science in Materials Engineering Program

The following minimum requirements for a Master of Science in Materials Engineering apply to a student who has earned a baccalaureate degree from a program accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>, in materials or metallurgical engineering or in a similarly named engineering program. A student with an undergraduate degree in another field of engineering or in the physical sciences may also be accepted into the Materials Engineering program. All students will be required to demonstrate competence in fields of study that emphasize the interrelationship among structure, processing, performance, and properties of materials. This can be accomplished by one of the methods described under "Preparatory Courses."

#### Plan I (Thesis Option)

The student must successfully complete at least 35 semester hours of (primarily) materials engineering graduate work including 26 hours of courses and 9 hours of MSE 699 Thesis Research .

- Of these 26 hours, 3 to 6 semester hours will be approved courses in mathematics, physical sciences, another engineering discipline or management (a maximum of 3 hours are allowed in management).

- Up to 9 of the 26 hours may be at the MSE 500 level. If a student has completed the undergraduate equivalent at UAB, another MSE 500 level course should be completed in its place).
- A full time graduate student is required to register for 1 credit hour of MSE 601 Materials Science and Engineering Seminar for fall and spring semester, up to 2 hours of seminar can be applied for credit.
- Successful completion of a Masters Thesis Research Proposal following the NSF Proposal Preparation and Submission Guidelines and examination on topics related to the student's research. (Completion of this step is required for registration of MSE 699 Thesis Research).
- The student must successfully complete and defend a thesis. The thesis must be sent to a department approved proofreader and edits must be incorporated into the final submission.
- The student must register for and successfully complete at least 9 semester hours of MSE 699 Thesis Research in addition to the 26 semester hours of course work.

### **Plan II (Non-thesis Option): Research/Design Emphasis**

The student must successfully complete at least 35 semester hours of (primarily) materials engineering graduate work including 32 hours of courses and 3 hours of MSE 698 Non-Thesis Research

- Of these 32 hours, 3 to 6 semester hours will be approved courses in mathematics, physical sciences, another engineering discipline or management (a maximum of 3 hours are allowed in management).
- Up to 9 of the 26 hours may be at the MSE 500 level. If a student has completed the undergraduate equivalent at UAB, another MSE 500 level course should be completed in its place).
- A full time graduate student is required to be registered for 1 credit hour of MSE 601 Materials Science and Engineering Seminar for fall and spring semester, up to 2 hours of seminar can be applied for credit.
- The student must complete 3 semester hours of MSE 698 Non-Thesis Research, involving an on-site research project (usually taken after completion of all coursework).

### **Plan II (Non-thesis Option): Fast Track, Fifth Year**

This plan is open to undergraduate students in materials engineering within 48 hours of graduation with at least 15 hours of coursework completed at UAB. The student must successfully complete at least 35 semester hours of (primarily) materials engineering graduate work.

- Of these 35 hours, 15 to 21 hours are required within the MSE department at the graduate level.
- Of these 35 hours, 9 to 12 hours of business related courses – students may focus these courses in several areas; business administration, management entrepreneurship, or engineering liability/law.
- Of these 35 hours, 0 to 6 hours may be completed by participation in an internship opportunity. This is an option and not a requirement. If internships are conducted for credit, each discipline will have requirements associated with the internship.
- A full time graduate student is required to be registered for 1 credit hour of MSE 601 Materials Science and Engineering Seminar for fall and spring semester, up to 2 hours of seminar can be applied for credit.

- Students are expected to complete at least two graduate courses during their senior year so that the masters can be completed in a one-year time period.

### **Plan II (Non-thesis Option): Technology/Engineering Management Emphasis**

The student must successfully complete at least 35 semester hours of (primarily) materials engineering graduate work.

- 12 semester hours of course work in a specific area of materials science and engineering (at least 6 of these 12 hours must be at the 600 level).
- 6 semester hours of approved management course work.
- 9 semester hours of engineering-oriented management coursework.
- 3 hours of MBA 631 Management and Organizations.
- The student must also complete 3 semester hours of involving an on-site design or research project (usually undertaken after completion of all course work).
- A full time graduate student is required to be registered for 1 credit hour of MSE 601 Materials Science and Engineering Seminar for fall and spring semester, up to 2 hours of seminar can be applied for credit..

### **PhD Program**

The PhD program in Materials Engineering is offered jointly with the Department of Metallurgical and Materials Engineering at the University of Alabama (Tuscaloosa).

The following minimum requirements for a PhD in materials engineering apply to a student who has earned a baccalaureate degree from a program accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>, in materials or metallurgical engineering or in a similarly named engineering program. A student with an undergraduate degree in another field of engineering or in the physical sciences may also be accepted into the Materials Engineering program. All students will be required to demonstrate competence in fields of study that emphasize the interrelationship among structure, processing, performance, and properties of materials. This can be accomplished by one of the methods described under "Preparatory Courses." A graduate student committee must be formed for all PhD candidates and one faculty member from UA Materials Engineering Program must be included.

### **PhD Track (For students entering with a BS):**

The requirements for a PhD student must complete 81 semester hours of (primarily) materials engineering graduate work as a requirement when entering with a BS degree:

- A minimum of 57 hours of approved graduate course work in metallurgical engineering, materials engineering, or fields supportive of these
- 15 hours may be at the MSE 500 level and is required for all students unless they completed the undergraduate equivalent at UAB (in which case another MSE 500 level course should be completed in its place).
- At least 6 semester hours but no more than 12 must be in supportive fields (a maximum of 6 hours can be in management). Additional course work may be required at the discretion of the mentor and program director.

- A full time graduate student is required to be registered for 1 credit hour of MSE 701 Materials Science and Engineering Seminar for fall and spring semester, up to 6 hours of seminar can be applied for credit.
- A student may apply 6 hours of MSE 798 Non dissertation Research can be applied for credit toward the 57 hour course requirement.
- Successful completion of a Dissertation Research Proposal following the NSF Proposal Preparation and Submission Guidelines and examination on topics related to the student's research. (Completion of this step is required for Admission to Candidacy).
- A minimum of 24 semester hours in MSE 799 Dissertation Research.
- Successful defense of a research dissertation in metallurgical/materials engineering.
- The dissertation must be sent to a department approved proofreader and edits must be incorporated into the final submission.
- For students entering the PhD program with a BS degree, it is expected that they will be able to earn a plan II masters degree after completing the required coursework for the degree.

## PhD Track (For students entering with a MS):

This track is for students entering the program with a master's degree in Materials Engineering or a closely related field.

The PhD student must complete 51 semester hours of (primarily) materials engineering graduate work as a requirement when entering with a MS degree

- A minimum of 27 hours of approved graduate course work in metallurgical engineering, materials engineering, or fields supportive of these
- 6 hours may be at the MSE 500 level is required for all students unless they completed the undergraduate equivalent at UAB (in which case another MSE 500 level course should be completed in its place).
- At least 3 semester hours but no more than 6 must be in supportive fields (a maximum of 3 hours can be in management). Additional course work may be required at the discretion of the mentor and program director.
- A full time graduate student is required to be registered for 1 credit hour of MSE 701 Materials Science and Engineering Seminar for fall and spring semester, up to 4 hours of seminar can be applied for credit.
- A student may apply 6 hours of MSE 798 Non dissertation Research can be applied for credit toward the 27 hour course requirement.
- Successful completion of a Dissertation Research Proposal following the NSF Proposal Preparation and Submission Guidelines and examination on topics related to the student's research. (Completion of this step is required for Admission to Candidacy).
- A minimum of 24 semester hours in MSE 799 Dissertation Research.
- Successful defense of a research dissertation in metallurgical/materials engineering.
- The dissertation must be sent to a department approved proofreader and edits must be incorporated into the final submission.

## Mechanical Engineering

Degree Offered:	MSME
Director:	David Littlefield

Phone:	(205) 934-8460
E-mail:	littlefield@uab.edu
Website:	<a href="http://www.uab.edu/engineering/home/departments-research/me/graduate">http://www.uab.edu/engineering/home/departments-research/me/graduate</a>

## Preparatory Courses

Students admitted to the graduate program in mechanical engineering without an undergraduate degree in mechanical engineering or who have not had the courses listed below must take the following courses or present equivalent prior coursework. Additional coursework may be required depending on the courses the student has taken during his/her undergraduate degree and the area of specialization for Masters.

Requirements	Hours
ME 241 Thermodynamics I	3
ME 321 Introduction to Fluid Mechanics	3
ME 322 Introduction to Heat Transfer	3
ME 360 Introduction to Mechatronic Systems Engineering	3
ME 370 Kinematics and Dynamics of Machinery	3
ME 371 Machine Design	3
CE 220 Mechanics of Solids	3

## Additional Information

Deadline for Entry Term(s):	Fall: July 1, Spring: November 1, Summer: April 1
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE General Test (TOEFL is also required for international applicants whose native language is not English.)

For detailed information, contact Dr. David Littlefield, Department of Mechanical Engineering, BEC 257, 1720 2nd Avenue South, Birmingham, Alabama 35294-4461.

Telephone: 205-934-8460

E-mail: [littlefield@uab.edu](mailto:littlefield@uab.edu)

Web: <http://www.uab.edu/engineering/home/departments-research/me/graduate>

## Master of Science in Mechanical Engineering Program Requirements

A bachelor's degree from an accredited (or equivalent) program in engineering or the physical sciences is required for admission to graduate study in mechanical engineering. The usual criteria for admission in good standing follows:

- Not less than B-level scholarship overall or over the last 60 semester hours of earned credit; and a minimum of 50th percentile on both quantitative and verbal portions of the GRE General Test. In addition, for foreign nationals, a minimum score of 80 (IBT) on the TOEFL is required. Other standardized examination scores will also be considered. A student not meeting these requirements may also be

admitted, perhaps on probationary status, provided other information indicating likely success in the program is provided.

A student with an undergraduate degree in a field of engineering other than mechanical or in the physical sciences may also be accepted into the mechanical engineering program. However, such a student will normally have to take additional, preparatory coursework as part of an expanded plan of study (see "Preparatory Courses" later in this section).

## Plan I (Thesis Option)

1. The student must successfully complete at least 24 semester hours of coursework, including (in addition to the general Graduate School requirements):
  - 6 semester hours in committee-approved\* mathematics courses
  - 18 semester hours in committee-approved\* mechanical engineering courses or approved related courses, including at least 2 semester hours of ME 694 Seminars in Mechanical Engineering and 3 semester hours in a course outside the student's research or specialization area.
2. The student must register for at least 6 hours of ME 699 Thesis Research in addition to the 24 semester hours of coursework.
3. The student must successfully complete and defend a thesis.

\* Before the first graduate semester at UAB, the Graduate Coordinator will advise new students regarding courses for the first semester. Before the end of the first semester, students will be assigned a Thesis Director based on research interest, and students will assemble their graduate committees. The committee will consist of the Thesis Director and two graduate faculty members with experience or expertise related to the student's thesis topic. The Thesis Director in coordination with the graduate committee will set the curriculum for the student.

## Plan II (Non-thesis Option): Research/Design Emphasis

Generally, Plan II will be approved for students working full-time and attending UAB on a part-time basis or when the student demonstrates that Plan II offers superior educational benefits. After 15 credit hours of coursework are completed, the student should select a project director and begin work on the final project. The election of Plan II must be approved by the student's graduate advisor.

1. The student must successfully complete at least 33 semester hours of coursework, including:
  - 6 semester hours in approved mathematics courses
  - A minimum of 27 semester hours in approved mechanical engineering courses or approved related courses. Out of these 27 semester hours, students must enroll in:
    - at least 3 semester hours in a course outside the student's research or specialization area
    - at least 2 semester hours of ME 694 Seminars in Mechanical Engineering
    - at least 3 hours of ME 698 Non-Thesis Research involving design or research
2. The student must make a presentation on the research project and submit a final report which must be approved by the project director.

## Plan II (Non-thesis Option): Technology/Engineering Management Emphasis

1. The student must successfully complete at least 33 semester hours of coursework, including

- At least 3 semester hours in approved mathematics courses
  - At least 6 semester hours in approved mechanical engineering courses
  - At least 2 semester hours of ME 694 Seminars in Mechanical Engineering
  - At least 6 semester hours in one of the following two management applications areas: MBA 662 Quantitative Analysis for Business Managers and MBA 631 Management and Organizations and MBA 642 Economics for Managers or another approved advanced management course
  - 3 semester hours in MBA 631 Management and Organizations Managerial Processes and Behavior
  - At least 3 semester hours in ME 698 Non-Thesis Research, involving design or research
  - At least 9 semester hours of engineering-oriented management coursework
2. The student must make a presentation on the research project and submit a final report which must be approved by the project director.

## School of Health Professions

**Dean: Harold P. Jones, PhD**

**Senior Associate Dean for Academic & Faculty Affairs: Donna J. Slovensky, PhD**

**Senior Associate Dean for Strategic Partnerships & Enterprise Development: M. Patrick McNeese, PhD**

**Senior Executive Associate Dean: Janelle M. Chiasera, PhD**

**Assistant Dean for Administrative & Fiscal Affairs: Melanie L. Talbot, MBA, CPA**

**Assistant Dean for Student Recruitment, Engagement & Success: Tracee M. Synco, PhD**

**Assistant Dean for Undergraduate Research & Honors: Fred (Ted) Bertrand, III, PhD**

The School of Health Professions delivers educational programs to prepare health personnel who will improve the services in health care and the systems through which these services are provided. In keeping with the mission of the University of Alabama at Birmingham, the resources and programs of the school are dedicated to excellence in teaching, research, and scholarly activity and to service to the institution, the community, and the professions represented by programs of the school.

Degree options in the School of Health Professions include bachelor's, master's, and doctoral programs sponsored by five academic departments – Clinical and Diagnostic Sciences, Health Services Administration, Nutrition Sciences, Occupational Therapy, and Physical Therapy. In addition, certificate options are available in some specialized areas. The School sponsors more than 25 degree and certificate options, all of which require students to apply for and be accepted to the specific degree or certificate program.

The School of Health Professions is committed to the practice of ethical standards of conduct. School policies, procedures, and regulations reflect this commitment and are in compliance with those of the University of Alabama at Birmingham. To ensure continued practice of ethical standards, the administration and the standing committees of the school (Faculty Affairs, Academic Affairs, and Student Affairs) regularly review school policies and procedures. All research endeavors are in compliance with policies of the UAB Institutional Review Board.

## SHP Mission, Vision, Values

The mission of the School of Health Professions is “*To improve health care through teaching, research, and translation of discoveries into practice in partnership with the UAB community.*” The School vision is, “*To be recognized as the leading school of health professions – shaping the future of healthcare.*” Fulfilling the mission requires faculty and staff to embrace the following organizational values:

- Accountability
- Collaboration/Cooperation
- Diversity
- Excellence
- Innovation/Creativity
- Integrity/Ethical behavior
- Open communication
- Professional behavior

## SHP Admissions

Entrance requirements for the individual educational programs of SHP vary. Persons desiring admission to a particular program should consult the appropriate section of the University Catalogs for specific entrance requirements, application process, and program information. Students who attend an institution other than UAB are encouraged to seek academic advisement from the SHP Office of Student Recruitment, Engagement, and Success as early as possible to plan for completion of program prerequisites.

The School of Health Professions welcomes applications from all individuals who are prepared for the programs offered. All applicants must offer acceptable evidence of ability and intent to meet the academic standards specified by the particular program into which admission is desired. In addition, certain immunizations are required prior to enrollment. For specific requirements, see the UAB Student Health and Insurance Programs and UAB Immunization Policy. If accepted into a SHP program, students must complete a background check and drug screen upon admission and again prior to clinical placement. Applicants are considered regardless of race, color, religion, sex, sexual orientation, national origin, disability unrelated to program performance, disabled veteran status, or Vietnam era veteran status (see UAB Equal Opportunity Policy). Persons who have not yet decided upon a specific health career may obtain information from the:

SHP Office of Student Recruitment, Engagement, and Success  
School of Health Professions Building  
Room 230  
1705 University Boulevard  
telephone: (205) 934-4195

## Interdisciplinary Programs

The School of Health Professions offers two graduate level interdisciplinary programs. The Graduate Certificate in Health-Focused Patient/Client Management for Physical and Occupational Therapists (p. 127) is designed to prepare PTs and OTs for expanding roles in the areas of prevention, health promotion, and wellness. Health Focused Patient/Client Management is the integration of health promotion and education methods in OT and PT practice to create a holistic approach to enhance patient/client wellness and quality of life.

The Ph.D. in Rehabilitation Science (p. 128) is an interdisciplinary program sponsored by the Department of Occupational Therapy and the Department of Physical Therapy within the School of Health Professions. This program is designed to prepare graduates to become academicians, scholars, scientists, and researchers in education, health care, industry, and government institutions as well as consultants to individuals, communities, and governments. The aim of this program is to prepare candidates to become leaders in teaching and research within the field of Rehabilitation Science. However, this is not a clinical training program. Applicants planning to become occupational therapists or physical therapists should look at the graduate catalog entries for these two professions.

## Health Focused Patient/Client Management for Physical and Occupational Therapists

### Contact Information

Program Director:	Diane Clark, DSc
E-Mail:	clark@uab.edu
Phone:	205 - 934 - 3566

Mailing address:

The University of Alabama at Birmingham  
Department of Physical Therapy  
1720 2nd Avenue South  
SHPB 337  
Birmingham, AL 35294-1212

### Program Information

The UAB Graduate Certificate in Health Focused Patient/Client Management for Physical and Occupational Therapists is designed to prepare PTs and OTs for expanding roles in the areas of prevention, health promotion, and wellness. Health Focused Patient/Client Management is the integration of health promotion and education methods in OT and PT practice to create a holistic approach to enhance patient/client wellness and quality of life. The ultimate goal of the certificate is to enable graduates to develop and implement clinical and community programs to address lifestyle and behavior factors that underlie many chronic diseases. Emphasis will be placed on program development for persons with disabilities. The concepts addressed in the certificate program are applicable across the patient/client lifespan and in a variety of practice settings.

Requirements		Hours
PTC 781	Health Focused Patient/Client Communication and Advocacy	3
PTC 782	Health Focused Patient/Client Management I	3
PTC 783	Health Focused Patient/Client Management II	3
PTC 784	Health Focused Care - Synthesis Project	3

### Credentials Conferred

The Graduate Certificate in Health Focused Patient/Client Management for Physical and Occupational Therapists is awarded by the University of Alabama at Birmingham.

## Length of Study

The certificate requires 5 semesters to complete; students take 1 course per semester.

## Program Entrance Date

Students may begin the program in the spring, summer or fall term.

## Admission Requirements

Admissions requirements include completion of a degree in physical or occupational therapy and current licensure as a physical or occupational therapist in the United States or foreign equivalent. Students from countries where English is not the official and primary language must also take and receive an acceptable score on the TOEFL or IELTS.

## Degree Requirements

15 credit hours (5 required courses)

## Rehabilitation Science

Degree Offered:	Ph.D.
Director:	David A. Brown, PT, PhD
Phone:	(205) 934-3566
E-mail:	dbrownpt@uab.edu
Website:	http://www.uab.edu/rsphd

## Program Information

### Ph.D. in Rehabilitation Science

The Ph.D. in Rehabilitation Science program is an interdisciplinary program offered by The Department of Occupational Therapy and The Department of Physical Therapy at the School of Health Professions. This exciting program is designed to prepare graduates to become\*:

- Academicians, scholars, scientists and researchers in education, health care, industry, and government institutions.
- Consultants to individuals, communities, and governments.

The goal of the Program is to prepare graduates to have the following skills:

- Design and implement research studies that will contribute to the knowledge base of rehabilitation science.
- Design and deliver educational courses related to rehabilitation.
- Translate innovative rehabilitation research findings into practice so as to advance the field of rehabilitation science.

\* The aim of this program is to prepare candidates to become leaders in teaching and research within the field of Rehabilitation Science. However, this is not a clinical training program. Applicants planning to become occupational therapists or physical therapists should visit the following websites to pursue training in these two professions: [www.uab.edu/ot](http://www.uab.edu/ot) or [www.uab.edu/pt](http://www.uab.edu/pt).

## Application Procedure

### Received by UAB Graduate School

LHL G03  
1720 2nd Avenue South

Birmingham, Alabama 35294-0013

- Complete and submit online Graduate School application ([uab.edu/graduate](http://uab.edu/graduate))
- Submit application fee payment - Domestic: \$50.00
- Request one (1) official transcript to be mailed by the issuing institution to the UAB Graduate School
- Three (3) letters of recommendation are required. Please ask the individuals from whom you requested references to submit them online via the recommendation email request they receive. Electronic submission is the preferred method. However, if your referees prefer to mail a recommendation letter, it should be mailed to the address of the department or program to which you are applying.

## Minimum Requirements for Admission

- Note that each application will be reviewed by the Admission Committee to identify individuals with strong commitment and aptitude to perform research related to Rehabilitation Science, along with strong academic preparation and professional-leadership potential.
- Undergraduate or graduate degree in occupational or physical therapy, engineering, exercise science, neuroscience, medicine, nursing, or other health related professions.
- Recommended minimum Graduate Record Exam (GRE) score of 50th percentile for all categories.
- Recommended minimum GPA 3.0/4.0 in all previous coursework
- Three strong evaluation references, with at least one from a research lab mentor, and one from an academic source.
- With the written essay, provide evidence of appropriate goals of study, professional growth and commitment to research, with special emphasis on interest in research that is being conducted at UAB.
- Interview with faculty that shows passion and commitment to research and professional growth in Rehabilitation Science.

## For further information contact:

David A. Brown, PT, Ph.D.  
Department of Physical Therapy  
205-934-3566  
[dbrownpt@uab.edu](mailto:dbrownpt@uab.edu)

## Clinical and Diagnostic Sciences

The Department of Clinical and Diagnostic Sciences is comprised of academic programs essential to today's healthcare system. Our programs provide training for future health care professionals in a variety of disciplines ranging from the diagnosis of illness and disease, the administration of advanced treatment therapies, to the performance of vital roles in surgical suites and in outpatient and inpatient healthcare settings. Graduates of our programs are well poised for a wide variety of job opportunities due to the outstanding education received at UAB. Current graduate program offerings include:

- **Biomedical and Health Sciences, M.S.**
- **Biotechnology, M.S. and Biotechnology Regulatory Affairs Certificate**
- **Clinical Laboratory Science, M.S.**
- **Clinical Pathology Assistant, M.S.**
- **Genetic Counseling, M.S.**
- **Health Physics, M.S.**
- **Nuclear Medicine Technology, M.S.**
- **Physician Assistant Studies, M.S.P.A.S.**

Students enrolled in CDS degree majors are required to complete a sequence of professional development courses that earn one academic credit and require submission of a graded project.

## Biomedical and Health Sciences

Prospective students visit <http://www.uab.edu/shp/home/degrees-certificates/grad-professional-degrees> to obtain specific admissions requirements on how to apply to the Graduate School.

Degrees Offered:	M.S.
Director:	Mark Bevensee, PhD
Phone:	(205) 934-7596
E-mail:	bevensee@uab.edu; kcaruthe@uab.edu

## Program Information

### Program Mission

The mission of the Master's Degree in Biomedical and Health Sciences is to provide quality education to prepare a diverse student body for entry into graduate health professions programs including medicine, dentistry, optometry, physical therapy, occupational therapy, and physician assistant studies.

### Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a BS degree in biology, chemistry, biochemistry, kinesiology/exercise science, biomedical sciences, psychology, or a related degree from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A= 4.0), computed from all undergraduate credits,
- Have a minimum science GPA of 3.0 (A=4.0), computed from all undergraduate coursework in biology, chemistry, mathematics, and physical sciences,
- Submit scores of Medical College Admissions Test (MCAT), Optometry Admissions Test (OAT), Dental Admission Test (DAT), or Graduate Record Exam (GRE),
- Have completed college level coursework that includes 8 hours of general biology, 8 hours of general or organic chemistry, and 4 additional hours of biological sciences,
- Submit a personal statement of interest to the program,
- Submit three letters of recommendation,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL,

submit a transcript evaluation from World Education Services (WES) at [www.wes.org](http://www.wes.org)

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. A background check and drug screen will be required at program admission.

Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program at the discretion of the program co-directors. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree seeking student does not constitute or guarantee admission to the M.S. degree program. Non-degree seeking students will be eligible to meet with M.S. BHS advisors to discuss course selections and planning for future enrollment in either the M.S. BHS program or the graduate health professional school of their choice.

### Essential Functions

Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must evidence or perform at each stage of their education. The absence of an essential function would fundamentally alter a student's ability to meet the program goals. The essential functions include commitment to learning, interpersonal skills, communication, time management, problem-solving, professionalism, responsibility, critical thinking, and stress management.

If you have a disability, but have not contacted Disability Support Services (DSS), please call (205) 934-4205 (voice) or (205) 934-4248 (TDD), or visit the DSS offices at 1701 9th Avenue South. Additional information is available at <http://www.uab.edu/students/disability/>

### Accreditation and Certification

None required.

### Additional Information

Entry Term:	Summer Semester
Deadline for All Application Materials to be in the Graduate School Office:	April 1
Entrance Tests:	MCAT, OAT, DAT, or GRE and for international applications from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)
Comments:	Transcript evaluation by WES is required for applicants with foreign university degrees

### Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biomedical and Health Sciences Program, UAB School of Health Professions, SHPB 446, 1705 University Blvd., Birmingham, Alabama 35294-1212

Telephone: 205-934-7596

E-mail: AskCDS@uab.edu

## Master of Science in Biomedical and Health Sciences

Requirements		Hours
BHS 502	Molecules and Cells	4
BHS 503	Microbiology and Immunology	4
BHS 501	Seminar I	1
BHS 550	Integrated Systems I: Neuroendocrine	3
BHS 555	Integrated Systems II: Cardiopulmonary	3
BHS 560	Integrated Systems III: Genitourinary	2
BHS 601	Seminar II	1
BHS 600	Integrated Systems IV: Gastrointestinal	2
BHS 605	Integrated Systems V: Musculoskeletal and Skin	3
BHS 610	Clinical Application and Simulation	2
BHS 698	Non-Thesis Research	4
BHS 602	Seminar III	1
Electives (choose 3 hours from below)		3
CB 724	Special Topics in Cell Biology	
CDS 550	Introduction to Medical History Taking and Physical Examination	
CDS 605	Survival Spanish for Health Professionals	
KIN 637	Physiology of Exercise I	
Any Graduate CDS-prefix elective course (500-600 level)		
<b>Total Hours</b>		<b>33</b>

## Biotechnology

Degree Offered:	M.S.
Program Director:	Tino Unlap, PhD
Phone:	(205) 934-7384
E-mail:	unlap@uab.edu
Website:	<a href="http://www.uab.edu/shp/cds/biotechnology-m-s-c-l-s-or-certificate">http://www.uab.edu/shp/cds/biotechnology-m-s-c-l-s-or-certificate</a>

## Program Information

### Program Mission

The faculty members of the Biotechnology Program are devoted to providing excellent service to the community and its graduates. The faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills, and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.

Out of a great concern for applied technology and the role that it plays in the diagnosis, management and treatment of human disease, and in developing products to solve problems for present and future generations, the Program is designed to provide instruction through didactic and practical training in order to ensure that its graduates possess the critical knowledge and skill sets that are required for intellectual and professional growth in the future.

### Biotechnology Careers

The goal of the Master's degree program is to provide a more direct route to a career in biotechnology by focusing on mastering current techniques

used in biotechnology coupled with the business fundamentals necessary for successful product/technology development in the industry. The multi-disciplinary aspects of this program will broaden and expand the knowledge base of students, thus making graduates particularly useful to potential industry employers. According to the U.S. Department of Labor Occupational Outlook Handbook, 2010, the demand in the biotechnology field continues to drive job growth, with much higher expected increases in career opportunities to be realized as compared to all other industries for the next several years (Batelle, 2012).

The Biotechnology Program is a Master of Science degree that requires 3 semesters for completion as full-time students. The Master of Science requires 37 credit hours and is designed for individuals who hold a Bachelor of Science or Bachelor of Arts degree in a related discipline including biology, chemistry, biochemistry, physics, engineering, mathematics, psychology and sociology.

## M.S. Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a biology, chemistry, or a related major from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A = 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Provide a written statement of career goals,
- Complete an interview with the program admissions committee, and
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at [www.wes.org](http://www.wes.org).

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. Accepted students must complete a background check and drug screen at admission and prior to placement in clinical internships by school policy.

## Essential Requirements

Fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program are available upon request from the Biotechnology program office. If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit <http://www.uab.edu/students/disability/>.

## Additional Information

Entry Term	Fall semester
Deadline for All Application Materials to be in the Graduate School Office:	February 28 (Early Acceptance), August 1 (Final Acceptance)
Number of Evaluation Forms Required:	None
Entrance Tests:	For international applicants from non- English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English(TWE)

Comments: Financial aid (fellowship, stipend or assistantship) is not available from the program; scholarship availability is limited; transcript evaluation by WES is required for applicants with foreign university degrees

## Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biotechnology Program, UAB School of Health Professions, SHPB 430, 1716 9th Avenue South, Birmingham, Alabama 35294-1212.

Telephone 205-934-3209.

E-mail AskCDS@uab.edu

## Master of Science in Biotechnology

Requirements	Hours
BT 500 Principles of Biotechnology - Nucleic Acid Technology	3
BT 550 Principles of Biotechnology - Amino Acid Technology	3
BT 600 Principles of Biotechnology - Systems Biology & Pharmacology	3
BT 650 Applications in Biotechnology I	1
BT 651 Applications in Biotechnology II	1
BT 652 Applications in Biotechnology III	1
BT 670 Bench to Commercialization I	3
BT 671 Bench to Commercialization II	3
BT 672 Bench to Commercialization III	3
BT 695 Biotechnology Internship	2
BT 698 Non-Thesis Research	4
CDS 501 Professional Skills I	0
CDS 502 Professional Skills II	0
CDS 503 Professional Skills III	1
CDS 610 Research Design and Statistics	3
CDS 625 Analysis of Scientific Publications	3
<b>Innovative Technologies in Biotechnology (take three times)</b>	<b>3</b>
BT 676 Innovative Technologies in Biotechnology	3
<b>Total Hours</b>	<b>37</b>

## Biotechnology and Regulatory Affairs Certificate

Degree Offered:	Biotechnology Regulatory Affairs Graduate Certificate
Program Director:	M. Tino Unlap, PhD
Phone:	(205) 934-7382
E-Mail:	unlap@uab.edu
Website:	<a href="https://www.uab.edu/shp/cds/biotechnology-regulatory-affairs">https://www.uab.edu/shp/cds/biotechnology-regulatory-affairs</a>

## Program Information

### Program Mission

As the biotechnology industry grows and life science companies mature, there is an increasing demand for a workforce trained in regulatory affairs to ensure that therapeutics, biologics, diagnostics and medical device products progress successfully through the development, manufacturing and marketing processes. Currently there are thousands of ongoing

clinical trials of new drugs, with many of them soon to be approved and ready for full-scale production, resulting in an all-time high demand for individuals with regulatory training.

The Biotechnology Regulatory Affairs certificate program is designed to provide students with targeted training and education in:

- The philosophies and roles of the domestic and international regulatory agencies that oversee drug, biologic, device, and diagnostics development,
- The laws that govern the development, manufacturing and commercial distribution of drugs, biologics and medical devices,
- The analysis of how emerging developments and trends are reshaping drug development and medical device regulation,
- The biological processes and laboratory techniques utilized for the discovery, development and evaluation of therapeutic drugs,
- Major concepts under which clinical trials are designed and run,
- The roles of the U.S. Food and Drug Administration (FDA), Institutional Review Boards, the Code of Federal Regulations and ethical principles,
- The complexities of clinical trial initiation and the issues of site and data management.

## Essential Requirements

Fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program are available upon request from the Biotechnology program office. If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit <http://www.uab.edu/students/disability/>.

## Additional Information

Entry Term:	Fall Semester
Deadline for All Application Materials to be in the Graduate School Office:	February 28 (Early Acceptance); August 1 (Final Acceptance)
Number of Evaluation Forms Required:	None
Entrance Tests:	For international applicants from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)

Comments: Financial aid (fellowship, stipend, or assistantship) is not available from the program; scholarship availability is limited; transcript evaluation by WES is required for applicants with foreign university degrees

## Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Biotechnology Program, UAB School of Health Professions, SHPB 430, 1705 University Blvd., Birmingham, Alabama 35294-1212.

Telephone 205-934-3209.

E-mail AskCDS@uab.edu

## Certificate in Biotechnology/Regulatory Affairs

Requirements	Hours
BTR 605 Biotechnology Regulatory & Quality Systems	3
BTR 615 Applications of Biological Processes in Drug Development	3
BTR 620 Regulation of Food and Drugs	3
BTR 640 Clinical Development of Drugs, Biologics, Diagnostics, and Medical Devices	3
BTR 690 Clinical Trial Implementation	3
<b>Total Hours</b>	<b>15</b>

## Clinical Laboratory Sciences

Degrees Offered:	M.S.
Director:	Floyd Josephat, EdD
Phone:	(205) 934-1348
E-mail:	josephat@uab.edu
Website:	<a href="http://www.uab.edu/shp/cds/clinical-laboratory-sciences">http://www.uab.edu/shp/cds/clinical-laboratory-sciences</a>

### Program Information

#### Program Mission

The Faculty of the Clinical Laboratory Sciences program is committed to service to the community and to providing high quality education to prepare students with a solid educational background and a set of skills translatable to a variety of laboratory settings including hospital laboratories, industry, research laboratories, and many more. The Faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.

#### M.S. Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a biology, chemistry, or a related major from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A = 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Have taken the GRE General Test,
- Provide a written statement of career goals,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at [www.wes.org](http://www.wes.org)

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement. Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets

the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

### Essential Functions

Essential functions are fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program. A full list of the essential functions of the program is available from the CLS website under the link *Admission* (<http://www.uab.edu/shp/cds/clinical-laboratory-sciences>). Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must evidence or perform at each stage of their education. The absence of an essential function would fundamentally alter a student's ability to meet the program goals. The essential requirements include categories of observation, movement, communication, intellect, and behavior.

If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit the DSS offices at 1701 9th Avenue South. Additional information is available at <http://www.uab.edu/students/disability/>.

### Accreditation and Certification

The program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Program graduates are eligible to apply for the certification examination offered by the American Society of Clinical Pathology Board of Certification (ASCP-BOC).

### NAACLS

5600 N River Road, Suite 720  
Rosemont, IL 60018-5119  
Phone: 847.939.3597  
Fax: 773.714.8886  
URL: <http://www.naacls.org/>

### ASCP Board of Certification

33 West Monroe Street, Suite 1600  
Chicago, IL 60603  
Phone: 312.541.4999  
Fax: 312.541.4998  
URL: <http://www.ascp.org/>

### Additional Information:

Entry Term:	Fall semester
Deadline for All Application Materials to be in the Graduate School Office:	Early Admission: February 1; Regular Admission: May 1
Entrance Tests:	GRE and for international applicants from non- English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English(TWE)
Comments:	Scholarship money is available, but is limited; transcript evaluation by WES is required for applicants with foreign university degrees

## Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Clinical Laboratory Sciences Program, UAB School of Health Professions, SHPB 430, 1716 9th Avenue South, Birmingham, Alabama 35294-1212.  
Telephone 205-934-3209.  
E-mail AskCDS@uab.edu

## Master of Science in Clinical Laboratory Science

Requirements	Hours
CDS 500 Fundamentals of Phlebotomy and Body Fluid Collection	1
CDS 501 Professional Skills I	0
CDS 502 Professional Skills II	0
CDS 503 Professional Skills III	1
CDS 610 Research Design and Statistics	3
CDS 625 Analysis of Scientific Publications	3
CLS 500 Health and Safety Management	1
CLS 503 Body Fluids	1
CLS 504 Lab Analysis of Body Fluids	1
CLS 505 Laboratory Management	3
CLS 506 Laboratory Techniques	2
CLS 518 Immunology	3
CLS 523 Clinical Microbiology	3
CLS 524 Clinical Microbiology Laboratory	1
CLS 526 Instrumentation & Automation	2
CLS 527 Instrumentation and Automation Laboratory	1
CLS 528 Hematology I	3
CLS 529 Hematology I Laboratory	1
CLS 530 Immunohematology	4
CLS 531 Immunohematology Laboratory	1
CLS 532 Hematology II	3
CLS 533 Hematology II Laboratory	1
CLS 538 Infectious Diseases	3
CLS 539 Infectious Diseases Laboratory	1
CLS 542 Molecular Diagnostics	3
CLS 543 Molecular Diagnostics Lab	1
CLS 551 Clinical Chemistry	4
CLS 552 Clinical Chemistry Laboratory	1
CLS 560 Clinical Correlations	3
CLS 570 Professional Development	1
CLS 595 Clinical Practice	12
CLS 698 Master's Level Non-Thesis Research	4
<b>Total Hours</b>	<b>72</b>

## Clinical Pathology Assistant

### Clinical Pathology Assistant

Entry Term	Deadline
Degree:	M.S.
Director:	Floyd Josephat, EdD
Phone:	(205) 934-1348
E-mail:	josephat@uab.edu

Website: <http://www.uab.edu/shp/cds/Clinical-laboratory-sciences>

## Program Information

### Program Mission

The Faculty of the Clinical Pathologist Assistant program is committed to service to the community and to providing high quality education to prepare students with a solid educational background and a set of skills translatable to a variety of laboratory settings including hospital laboratories, industry, research laboratories, and many more. The Faculty, in its concern for the health and safety of the general public, is committed to ensuring that each student develops knowledge, skills and values essential to the appropriate role providing the basis for continuing intellectual and professional growth.

### M.S. Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a baccalaureate degree, or higher, in Medical Technology/ Medical Laboratory Science/Clinical Laboratory Science.
- Have a minimum GPA of 3.0 (A = 4.0).
- Have taken the GRE General Test.
- Have earned certification as a clinical laboratory scientist.
- Have worked as a Medical Technologist/Medical Laboratory Scientist/ Clinical Laboratory Scientist for 2 years minimum.

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement.

Persons with a Bachelor of Science degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

### Essential Functions

Essential functions are fundamental tasks, behaviors, and abilities necessary to successfully complete the requirements of the Program. Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must evidence or perform at each stage of their education. The absence of an essential function would fundamentally alter a student's ability to meet the program goals. The essential requirements include categories of observation, movement, communication, intellect, and behavior.

If you have a disability, but have not contacted Disability Support Services (DSS), please call 934-4205 or visit the DSS offices at 1701 9th Avenue South. Additional information is available at <http://www.uab.edu/students/disability/>.

Requirement	Fulfilled By:
Entry Term:	Fall Semester

Deadline for ALL Application Materials to be in the Graduate School Office:	Early Acceptance: February 1; Regular Acceptance: May 1
Entrance Tests:	GRE and for international applicants from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)

### Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Clinical Pathology Assistant Program, UAB School of Health Professions, SHPB 430, 1716 9th Avenue South, Birmingham, Alabama 35294-1212.  
Telephone 205-934-3209.  
E-mail AskCDS@uab.edu

First Year					
First Term	Hour	Second Term	Hour	Summer Term	Hours
CPA 606	3	CPA 605	3	CPA 609	3
CPA 607	3	CPA 608	3	CPA 651	3
CPA 650	3	CPA 552	3	CPA 653	3
		<b>9</b>	<b>9</b>		<b>9</b>
Second Year					
First Term	Hours				
CPA 654	3				
CPA 698	3				
CPA 690	5				
		<b>11</b>			
<b>Total credit hours: 38</b>					

## Genetic Counseling

Degree Offered:	M.S.
Program Director:	Patricia (Tricia) Z. Page
Phone:	(205) 934-7528
E-mail:	ppagea@uab.edu
Website:	www.uab.edu/msgc

## Master of Science in Genetic Counseling

### Accreditation:

The Genetic Counseling Program is fully accredited by the Accreditation Council for Genetic Counseling (ACGC). The program received full accreditation in 2013 and will apply for re-accreditation in 2019. Fully accredited programs must complete a rigorous process to demonstrate that the program is capable of meeting the criteria for a genetic counseling training program as established by ACGC. Programs that successfully complete this process are awarded full accreditation. All students that graduate from an accredited program may apply for board certification and licensure as a genetic counselor.

### Admission Requirements

- Baccalaureate degree from a regionally-accredited college/university
- Graduate Record Examination (GRE) General Test scores from the Verbal, Quantitative and Analytic sections. Applicants with advanced degrees whose GRE scores are older than 5 years (the time limit

that ETS will send scores) can send reports from previously attended graduate programs.

- A minimum cumulative undergraduate grade point average of at least 3.0 (A = 4.0)
- A minimum GPA of 3.0 in natural science courses
- A minimum cumulative grade point average of 3.0 in the program prerequisite courses, with a minimum grade of C in each (prerequisite courses are listed below)
- Resume or CV: This should include academic qualifications, a description and timeline of any paid or volunteer work experience in crisis counseling or peer counseling setting, working with individuals with genetic conditions or disabilities, technical work in laboratories, research, or teaching experience, and any other relevant information, such as job shadowing.
- A personal statement (no more than 500 words) highlighting your motivation to become a genetic counselor, and emphasizing your prior and current experiences and how they will benefit you in the profession.
- Paid or volunteer experience in a crisis counseling setting, peer counseling setting, working with individuals with genetic conditions or disabilities, technical work in genetics laboratories, research, or teaching experience in biology or genetics is recommended and encouraged in preparation for entering the genetic counseling field. Job shadowing is strongly encouraged.
- Interview with UAB faculty
- Three letters of recommendation
- Satisfactory screening on health data questionnaire by the UAB Medical Center Student Health Service.
- Complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy.
- Registration with National Matching Services.
- The following course prerequisites:
  - o 3 semester hours of biology I (with lab)
  - o 3 semester hours of biology II (with lab)
  - o 3 semester hours of biochemistry
  - o 3 semester hours of genetics
  - o 3 semester hours of statistics (upper level, population, and/or health-related)
  - o 3 semester hours of psychology (general, developmental, or abnormal)

## Degree Requirements

The graduate program in genetic counseling will follow the Plan II (non-thesis) option.

## Program Curriculum

First Year	
First Term	Hours
GC 501	3
GC 510	3
GC 560	1
GC 725	3
CDS 501	0
CDS 610	3

ECG 621	3
	<b>16</b>

**Total credit hours: 16****First Year**

Second Term	Hours
GC 504	3
GC 505	3
GC 506	3
GC 560	1
CDS Elective	1-3
CDS 502	0
ECG 638	3
	<b>14-16</b>

**Total credit hours: 14-16****First Year**

Summer Term	Hours
GC 650	2
GC 651	4
	<b>6</b>

**Total credit hours: 6****Second Year**

First Term	Hours
GC 560	1
GC 600	2
GC 652	2
GC 653	2
GC 698	2
CDS 503	1
	<b>10</b>

**Total credit hours: 10****Second Year**

Second Term	Hours
GC 560	1
GC 602	1-4
GC 654	2
GC 655	2
GC 698	2
CDS 605	1
	<b>9-12</b>

**Total credit hours: 9-12****Additional Information**

Deadline for Entry Term(s):	January 15
Deadline for All Application Materials to be in the Graduate School Office:	January 15
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

**Contact Information**

For detailed information, contact Program Director, Graduate Program in Genetic Counseling, UAB School of Health Professions, 1716 9th Avenue South, SHPB 444, Birmingham, AL 35294-1212.

Telephone 205-975-4CDS (205-975-4237)

E-mail <mailto:AskCDS@uab.edu> (AskCDS@uab.edu)

Website [www.uab.edu/msgc](http://www.uab.edu/msgc)

**Master of Science in Genetic Counseling**

Requirements	Hours
CDS 501 Professional Skills I	0
CDS 502 Professional Skills II	0
CDS 503 Professional Skills III	1
CDS 605 Survival Spanish for Health Professionals	1
CDS 610 Research Design and Statistics	3
ECG 621 Theories of Individual Counseling	3
ECG 638 Practicum I: Clinical Skills and Techniques	3
GC 501 Genetics in Medicine	3
GC 504 Prenatal Genetics, Embryology and Teratology	3
GC 505 Principles of Cancer and Adult Genetics and Counseling	3
GC 506 Theory and Practice of Genetic Counseling	3
GC 510 Introduction to Genetic Counseling	3
GC 600 Advanced Clinical Skills in Genetic Counseling - SL	2
GC 602 Advanced Topics in Genetic Counseling	2
GC 650 Clinical Laboratory Rotation	2
GC 651 Clinical Rotation I	4
GC 652 Clinical Rotation II	2
GC 653 Clinical Rotation III	2
GC 654 Clinical Rotation IV	2
GC 655 Clinical Rotation V	2
GC 725 Advanced Medical Genetics and Genomics	3
<b>Non-Thesis Research (take twice)</b>	<b>4</b>
GC 698 Non Thesis Research	
<b>One Elective Course</b> <sup>1</sup>	<b>1-3</b>
<b>Four hours of Journal Club</b>	<b>4</b>
GC 560 Genetic Counseling Journal Club (take four times)	
<b>Total Hours</b>	<b>56-58</b>

<sup>1</sup> Various courses are pre-approved for this elective, including CDS 550, CDS 625, EPI 600, HB 635, HCO 613, HCO 670, HCO 672, HE 502, NTR 601. Others are possible - as approved by program director. All would be courses at 500 level or above.

**Health Physics****Health Physics**

Degree Offered:	M.S.
Program Director	Norman E. Bolus, MSPH, MPH
Phone:	(205) 934-3427
E-Mail:	<a href="mailto:bolusn@uab.edu">bolusn@uab.edu</a>
Website:	<a href="http://www.uab.edu/shp/cds">www.uab.edu/shp/cds</a>

**Program Information**

Health Physics is a discipline that focuses on the application of physics, nuclear science, and engineering physics to diagnostics, treatment, and

therapeutic processes pertaining to public health protection. It includes instruction in radiation biophysics, biophysics, health effects of natural and artificially induced radiation, hazard evaluation, environmental radioactivity, nuclear physics, engineering physics, radiobiology, medical radiology, calibration and dosage theory, computer application and medical informatics, and specific research problems involving the use of non-ionizing and ionizing radiation.

## Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a baccalaureate degree in biology, physics, chemistry, biomedical sciences, bioengineering, or a related degree from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A= 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Apply for admission to the UAB MHP Program,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at [www.wes.org](http://www.wes.org)

The completed application must be on file with the program office by February 15th for a priority interview to be granted. All eligible applicants will be interviewed in March for admission decisions in early April. Eligible late applicants will be considered on a space-available basis up to August 1st.

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement. Persons with a baccalaureate degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

## Program Accreditation and Professional Credentials

Established Health Physics programs may seek accreditation from the Applied Science Accreditation Commission (ASAC) of the Accreditation Board for Engineering and Technology (ABET). Programmatic accreditation can be sought when the program is fully implemented and has graduated its first cohort of students. Program graduates will be eligible for part I of the certification examination administered by the American Board of Health Physics (ABHP).

## Additional Information

Entry Term:	Fall Semester
Deadline for Application Materials to August 1 be in the Graduate School Office:	
Program Length:	4 consecutive semesters

## Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Health Physics Program, UAB School of Health Professions, SHPB 446, 1705 University Blvd., Birmingham, Alabama 35294-1212.  
Telephone 205-934-3209.  
E-mail [AskCDS@uab.edu](mailto:AskCDS@uab.edu)

## Master of Science in Health Physics

Requirements	Hours
CDS 610 Research Design and Statistics	3
MHP 601 Principles of Health Physics	3
NMT 610 Medical Radiation Physics	4
NMT 621 Nuclear Medicine Instrumentation I	4
CDS 625 Analysis of Scientific Publications	3
MHP 611 Physics of Diagnostic Imaging	3
MHP 620 Principles of Dosimetry	3
NMT 641 Regulations, Radiation Protection/Biology and Lab	4
MHP 621 Nonionizing Radiation	3
Supervised Practice Summer, Second Fall 6 Semester Hours each: Total 12 hours	12
MHP 691 Supervised Practice	
<b>Electives</b> Substitution of elective courses must be approved by advisor	6
MHP 651 Advanced Radiation Biology	
MHP 652 Radiochemistry	
CDS 501 Professional Skills I	0
CDS 502 Professional Skills II	0
CDS 503 Professional Skills III	1
CDS 504 Professional Skills IV	1
MHP 698 Non-Thesis Research	4
<b>Total Hours</b>	<b>54</b>

## Nuclear Medicine Technology

Degree Offered:	M.S.
Program Director:	Norman Bolus
Phone:	(205) 934-3427
E-mail:	<a href="mailto:bolusn@uab.edu">bolusn@uab.edu</a>
Website:	<a href="http://www.uab.edu/shp/cds/nuclear-medicine-technology">http://www.uab.edu/shp/cds/nuclear-medicine-technology</a>

## Program Information

### Program Mission

The UAB Nuclear Medicine Technology Program is dedicated to providing a quality program by offering didactic and clinical coursework in a curriculum that is designed to prepare students to become competent and productive entry level technologists. The program also serves the profession through its offering of continuing education activities and educational products.

### Admission Requirements

In addition to the general Graduate School admission requirements, applicants to the M.S. program must:

- Have a baccalaureate degree in biology, physics, chemistry, biomedical sciences, bioengineering, or a related degree from an accredited college or university,
- Have a minimum undergraduate GPA of 3.0 (A= 4.0), computed from all undergraduate credits or from the last 60 semester hours of undergraduate course credit,
- Apply for admission to the UAB NMT Program,
- Complete a clinical observation and write a reflection on the observation,
- If foreign-educated, have a score of at least 550 for paper version (or 80 for Internet version; or 213 for computer version) on the TOEFL, submit a transcript evaluation from World Education Services (WES) at [www.wes.org](http://www.wes.org)

The completed application and observation form must be on file with the program office by February 15th for a priority interview to be granted. All eligible applicants will be interviewed in March for admission decisions in early April. Eligible late applicants will be considered on a space-available basis up to August 1st.

If accepted, students must complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service before enrollment. A background check and drug screen will be required at program admission and prior to clinical placement. Persons with a baccalaureate degree may be eligible to register for courses as non-degree seeking graduate students before acceptance into the M.S. program. If a non-degree seeking graduate student meets the M.S. program admission requirements, up to 12 semester hours of approved non-degree graduate coursework may be accepted for the M.S. degree. Admission of a student to any course as a non-degree student does not constitute admission to the M.S. degree program.

## Essential Functions

Essential functions are physical abilities, mental abilities, skills, attitudes, and behaviors the students must show evidence of to be able perform at each stage of their didactic and clinical education. A list of essential functions is on file in the NMT Program Office and in the NMT Program & Policy Book.

If you have a disability, but have not contacted Disability Support Services (DSS), please call (205) 934-4205 (voice) or (205) 934-4248 (TDD), or visit the DSS offices at 1701 9th Avenue South. Additional information is available at <http://www.uab.edu/students/disability/>.

## Accreditation and Certification

Nuclear Medicine Technology academic programs are accredited by the Joint Review Committee on Nuclear Medicine Technology Programs (JRCNMT). Program graduates are eligible to apply for the certification examination offered by both the Nuclear Medicine Technology Certification Board (NMTCB) or the American Registry of Radiological Technologists (ARRT).

### JRCNMT

2000 W. Danforth Road

Suite 130, #203

Edmond, OK 73003

Phone: 405.285.0546

Fax: 405.285.0579

[jrcnmt@coxinet.net](mailto:jrcnmt@coxinet.net)

<http://www.jrcnmt.org/>

### NMTCB

3558 Habersham at Northlake

Building I

Tucker, GA 30084

Phone: 404.315.1739

Fax: 404.315.6502

[board@nmtcb.org](mailto:board@nmtcb.org)

<http://www.nmtcb.org/root/default.php>

### ARRT

1255 Northland Drive

St. Paul, MN 55120

Phone: 651.687.0048

Fax: 651.687.3299

<https://www.arry.org/>

## Additional Information

Entry Term:	Fall Semester
Deadline for All Application Materials to be in the Graduate School Office:	First Consideration: February 15th; Space available basis after first consideration, up to August 1st
Entrance Tests:	For international applicants from non-English speaking countries, scores for the test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)
Comments:	Scholarship money is available, but is very limited; transcript evaluation by WES is required for applicants with foreign university degrees

## Contact Information

For detailed information, contact the Department of Clinical and Diagnostic Sciences, Nuclear Medicine Technology Program, UAB School of Health Professions, SHPB 446, 1716 9th Avenue South, Birmingham, Alabama 35294-1212.

Telephone 205-934-3209.

E-mail [AskCDS@uab.edu](mailto:AskCDS@uab.edu)

## Master of Science in Nuclear Medicine Technology

Requirements	Hours
CDS 501 Professional Skills I	0
CDS 610 Research Design and Statistics	3

NMT 602	Introduction to Nuclear Medicine, Patient Care & Communication Skills	3
NMT 610	Medical Radiation Physics	4
NMT 621	Nuclear Medicine Instrumentation I	4
NMT 631	Nuclear Medicine Anatomy & Physiology - Procedure I	4
CDS 502	Professional Skills II	0
CDS 625	Analysis of Scientific Publications	3
NMT 632	Nuclear Medicine Anatomy & Physiology - Procedures II	4
NMT 641	Regulations, Radiation Protection/Biology and Lab	4
Clinical Practice <sup>1</sup>		15
NMT 691	NMT Clinical Practice	
CDS 503	Professional Skills III	1
HA 650	Management and Leadership Skills for Clinical Professionals	3
NMT 605	Cross-Sectional Anatomy	3
NMT 622	NMT Instrumentation II	3
NMT 623	CT Instrumentation	3
NMT 660	Radiopharmacy, Pharmacology & Lab	3
NMT 698	Non-Thesis Research	4
<b>Total Hours</b>		<b>64</b>

<sup>1</sup> Varies by term 3, 5, 7 (Spring, Summer, 2nd Fall)

## Physician Assistant Studies

Degree Offered:	M.S.P.A.S.
Interim Program Director:	M. Tosi Gilford, MD, PA
Phone:	(205) 936-9921
E-mail:	AskCDS@uab.edu
Website:	www.uab.edu/pa

### General Information

Physician Assistants (PAs) are valuable members of a multidisciplinary healthcare team. The profession was established in 1965 to help physicians provide healthcare services to under-served and rural populations. While the profession remains committed to its historical mission, PAs are now employed in almost all medical and surgical specialties.

PAs are healthcare professionals licensed to practice medicine under the supervision of a physician. Individual state practice laws and hospital bylaws define the scope of practice and prescribing authority of physician assistants. To be eligible for licensure, PAs must graduate from an accredited physician assistant program and pass the Physician Assistant National Certification Examination (PANCE). To maintain licensure, PAs must complete 100 hours of continuing medical education credits every two years and pass the Physician Assistant National Recertification Examination (PANRE) every ten years. PAs may obtain additional training through postgraduate residency programs in various subspecialty areas, but these programs are not required for licensure or practice in subspecialty areas.

The mission of the UAB Physician Assistant Studies Program is to provide qualified individuals with the knowledge, skills, and judgment needed to assist physicians in the care of patients in surgical, acute-care, and medical settings. While physician assistants function under the supervision of the physicians, they are capable of performing selected tasks autonomously.

## Admission Prerequisite Coursework and Application Information

All prerequisite courses must be successfully completed in the United States.

Requirements	Hours
BY 115 Human Anatomy	4
BY 116 Introductory Human Physiology or BY 409 Principles of Human Physiology	4
BY 123 Introductory Biology I	4
BY 124 Introductory Biology II	4
BY 261 Introduction to Microbiology or BY 271 Biology of Microorganisms	4
CH 115 General Chemistry I & CH 116 and General Chemistry I Laboratory & CH 117 and General Chemistry II & CH 118 and General Chemistry II Laboratory (CH 105, CH 106, CH 107, CH 108 accepted)	8
PY 216 Elementary Statistical Methods & 216L and Elementary Statistical Methods Laboratory	4
PY 101 Introduction to Psychology or PY 201 Honors Introduction to Psychology	3
PY 212 Developmental Psychology or PY 218 Abnormal Psychology	3
HCM 360 Statistics for Managers	3

Deadline for All Application Materials to be received by the CASPA:	Completed applications must be received by the Central Application Service for Physician Assistants (CASPA) no later than August 1 the year prior to the expected term of enrollment
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Number of Evaluations/ Letter of Recommendations Required:	Three
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Entrance Tests:	GRE (TOEFL is required for international applicants whose native language is not English) or MCAT.
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### Accreditation:

The Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant, Inc. (ARC-PA).

### Credentials Conferred:

Diploma—The Master of Science in Physician Assistant Studies (MSPAS) degree is awarded by the University of Alabama at Birmingham.

### Professional Certification:

Graduates of the UAB PA program are eligible to take the Physician Assistant National Certifying Examination (PANCE) sponsored by the National Commission on Certification of Physician Assistants to become a certified PA.

### Essential Requirements

Fundamental tasks, behaviors, and abilities necessary to successfully complete the academic and clinical requirements of the program and to satisfy licensure/certification requirements have been outlined and

are available upon request from the academic program office. Students requesting disability accommodations should contact UAB Disability Support Services (DSS) at 205-934-4205.

## Program Curriculum:

Course requirements are listed below with semester credit hours shown.

### Didactic Curriculum

#### First Year

First Term	Hours
PA 601	4
PA 602	4
PA 605	3
PA 610	3
PA 615	1
CDS 501	0
	<b>15</b>

**Total credit hours: 15**

#### First Year

Second Term	Hours
PA 603	3
PA 606	6
PA 608	3
PA 611	3
PA 613	3
CDS 502	0
	<b>18</b>

**Total credit hours: 18**

#### First Year

Summer Term	Hours
PA 604	3
PA 614	2
PA 616	1
PA 618	1
PA 619	3
CDS 503	1
CDS 535	1
HCM 530	3
	<b>15</b>

**Total credit hours: 15**

#### Second Year

First Term	Hours
PA 607	6
PA 609	3
PA 617	3
PA 620	2
PA 634	1
PA 635	2
	<b>17</b>

**Total credit hours: 17**

## Clinical Curriculum

The clinical component of the curriculum consists of 11 clinical rotations PA 621 – PA 632 plus Senior Seminar and a Master's Research Project Presentation. Of the clinical rotations, 7 are required and 4 are electives.

#### Second Year

Second Term	Hours
PA 621	4
PA 622	4
PA 623	4
PA 624	4
	<b>16</b>

**Total credit hours: 16**

#### Second Year

Summer Term	Hours
PA 625	4
PA 626	4
PA 627	4
PA 629	4
PA 698	1
	<b>17</b>

**Total credit hours: 17**

#### Third Year

First Term	Hours
PA 630	4
PA 631	4
PA 632	4
PA 641	5
	<b>17</b>

**Total credit hours: 17**

## Clinical Rotations (PA 621- PA 632)

7 Required Clinical Rotations

4 Elective Clinical Rotations:

Requirements	Hours
PA 621 Clinical Services I	4
PA 622 Clinical Services II	4
PA 623 Clinical Service III	4
PA 624 Clinical Services IV	4
PA 625 Clinical Services V	4
PA 626 Clinical Service VI	4
PA 627 Clinical Service VII	4
PA 629 Clinical Service IX	4
PA 630 Clinical Service X	4
PA 631 Clinical Service XI	4
PA 632 Clinical Services XII	4

## Master of Science in Physician Assistant Studies-Master of Public Health Degree Option

The coordinated Master of Science in Physician Assistant Studies and Master of Public Health (MSPAS-MPH) dual degree program will prepare physician assistant students for leadership roles that address community

health care needs. The program aims to increase the number of high quality primary care clinicians with public health expertise and thus improve access, quality and cost of care. This plan of study provides students with a thorough understanding of the social and environmental determinants of health, population disease prevention and health promotion strategies, health disparities, epidemiological research analysis and healthcare quality improvement capabilities.

### Admissions Requirements

Students must meet the admissions requirements for both the MSPAS degree program as well as the MPH degree program. Click here for MSPAS admissions requirements. Click here for UAB School of Public Health admissions requirements.

In addition to meeting the stated requirements for each degree separately, applicants for the dual degree must also have completed a bachelor degree and all prerequisites before December 30 in order to start the program in January of the following spring term.

### Application Procedures

In order to be considered for admission to the UAB MSPAS/MPH dual degree program, candidates will need to complete and submit the following materials by the stated deadlines:

August 1: The Central Application Service for Physician Assistants (CASPA) Application

August 7: The UAB PA Supplemental Application

August 7: The UAB Graduate School MPH/MSPAS ApplyYourself Application

For more information visit the Physician Assistant Studies web page for the MSPAS-MPH degree option at <http://www.uab.edu/shp/cds/physician-assistant/mspas-mp>

### Master of Science in Physician Assistant Studies

Requirements	Hours
CDS 501 Professional Skills I	0
PA 615 Intro to the Profession	1
PA 601 Human Gross Anatomy	4
PA 602 Medical Physiology	4
PA 610 Clinical Lab Medicine	3
PA 605 Pathology	3
CDS 502 Professional Skills II	0
PA 611 History and Physical Examination I	3
PA 606 Clinical Medicine I	6
PA 603 Pharmacology I	3
PA 608 Surgical Disease I	3
PA 613 Surgical Techniques	3
CDS 535 Medical Genetics Across the Life Span	1
CDS 503 Professional Skills III	1
PA 614 Operating Room Techniques	2
PA 616 Electrocardiography	1
PA 618 Risk Management	1
PA 619 Fundamentals of Clinical Research	3
HCM 530 Health Care Delivery and Reimbursement	3
PA 604 Pharmacology II	3
PA 617 Applied Behavioral Medicine	3
PA 635 Special Populations in Medicine	2

PA 607 Clinical Medicine II	6
PA 620 Analysis of Professional Literature	2
PA 609 Surgical Disease II	3
PA 634 Simulated Clinical Concepts	1
PA 638 Senior Seminar I	5
Clinical Service	
PA 621 Clinical Services I	4
PA 622 Clinical Services II	4
PA 623 Clinical Service III	4
PA 624 Clinical Services IV	4
PA 625 Clinical Services V	4
PA 626 Clinical Service VI	4
PA 627 Clinical Service VII	4
PA 629 Clinical Service IX	4
PA 630 Clinical Service X	4
PA 631 Clinical Service XI	4
PA 632 Clinical Service XII, Clinical Services XII	4
PA 698 Presentation of Res Project	1

**Total Hours 115**

## Health Services Administration

The Department of Health Services Administration includes degree programs at baccalaureate, masters, and doctoral levels, as well as undergraduate minors and a variety of professional education opportunities for health services executives and clinicians. Some programs in the department are the only one of their kind in the state, or first of their kind in the nation. The MSHA Program is ranked #2 in the nation. Degree programs currently available include:

- Administration - Health Services, PhD and DSc
- Clinical Informatics, Graduate Certificate
- Health Administration, MSHA
  - Tracks: Residential, Executive, International
- Health Care Management, BS
  - Tracks: Clinical Manager, General Manager, Long Term Care Administration, Pre-Professional
- Health Informatics, MSHI
  - Tracks: Data Analytics, User Experience
- Healthcare Quality and Safety, MS and Graduate Certificate
- Undergraduate Minors
  - Clinical Coding and Reimbursement, Health Care Management, Health Information Management

## Administration Health Services

Degrees Offered:	Ph.D.
Director:	Dr. Larry Heard
Phone:	(205) 934-3113
E-mail:	lheard@uab.edu
Website:	<a href="http://www.uab.edu/shp/hsa/doctoral-programs/ph-d">http://www.uab.edu/shp/hsa/doctoral-programs/ph-d</a>

Degrees Offered:	D.Sc.
Director:	Dr. Robert Hernandez
Phone:	(205) 934-1665

E-mail: [hernande@uab.edu](mailto:hernande@uab.edu)  
 Website: <http://www.uab.edu/execdoc>

Prospective students should visit <http://www.uab.edu/shp/hsa/doctoral-programs/ph-d> to obtain specific admissions requirements on how to apply.

## Doctor of Philosophy Program Information

The Ph.D. program in Administration–Health Services is a degree program offered jointly and cooperatively by the Department of Health Services Administration in the School of Health Professions and the Graduate School of Management in the School of Business. Faculty associated with the School of Public Health, School of Medicine, Lister Hill Center for Health Policy, Center for Outcomes and Effectiveness Research and Education, and Center on Aging also contribute to student learning.

The Ph.D. program is for those who wish to pursue the conceptual, philosophical, and applied aspects of administrative processes in health services, health policy, and outcomes research in health care. It provides doctoral-level study and research in administration with specific application to health services. The pedagogical focus is on developing a strong research orientation through course work, research seminars, and mentoring relationships with faculty. Students may choose a specialization in either strategic management, health services research, or health informatics. Students who are interested in pursuing academic careers are also afforded the opportunity to develop their teaching skills through course work and teaching opportunities. Job placement occurs in regional, national, and international markets. To date, more than 100 graduates have taken positions in academic institutions as well as health service delivery, governmental, and consulting organizations.

## Admission Requirements

An applicant should already possess a master's degree in a relevant discipline or have completed an undergraduate program with an outstanding record. Completed applications of well-qualified candidates received by January 1 may be considered for early admission. The application deadline is March 15. Although applications may be considered after March 15, admission and financial aid priority is given to those applicants whose materials are complete by January 1. Applications submitted after January 1 would be considered on a space-available basis only.

Admission recommendations are made by the Admissions and Policy Committee after examination of the candidate's qualifications, which should include a minimum GRE General Test score of 300 (verbal plus quantitative), if tested prior to August 2011; equivalent combined scores for the revised GRE; or a GMAT test score of 550. All applicants whose first language is not English are also required to submit a score for the Test of English as a Foreign Language (TOEFL). A TOEFL score of 80 is required if the TOEFL taken is based on the Internet version; if computer-based, the minimum score required is 213; and if the paper-based test version is taken, the minimum acceptable score is 550 or above. Consideration will also be given to the quality of the applicant's academic record, previous research experience and productivity, and estimated research potential as indicated by references.

Various forms of financial aid are available to students. Departmental research assistantships are awarded on a competitive basis and carry an obligation of 20 hours of work per week. Assistantships are awarded

to incoming students for a period of one year, and may be renewable for a second year based on satisfactory work and academic progress, depending on the availability of funds. Some students are able to secure funding for additional years in the program through research assistant positions or other part-time jobs funded by faculty members' grants and contract activities. Other forms of financial assistance include minority fellowships offered through the UAB Graduate School, paid teaching opportunities in selected undergraduate programs, and federal student loans.

## Prerequisites

Prerequisite requirements include one graduate-level statistics course with computer usage, one graduate-level course on the U.S. health care system, and an introductory healthcare finance course. Incoming students who have not met these prerequisites during a master's program may take courses prior to entering the program or during their first year of study in the program.

## Program of Study

The program of study consists of five components

1. Courses in administration and health systems,
2. Courses in research methodology and statistics,
3. Specialization courses,
4. Comprehensive examinations,
5. The doctoral dissertation.

Specializations are currently available in strategic management and health services research. Students must complete all coursework in the first three areas and pass a comprehensive examination in each before work can officially begin on the dissertation. The investigation and other special work leading to the dissertation must be performed directly under the guidance and supervision of a five-person committee of the UAB graduate faculty. The normal minimum period in which the doctoral degree can be earned is three to four years of full-time study.

## Degree Completion

The granting of the Ph.D. degree is based on completion of all required coursework, residency requirements, comprehensive examinations, dissertation requirements, and the recommendation of the Administration–Health Services graduate program director and the dissertation committee.

## Mission, Vision, and Values Statements

Because outstanding teaching and research are essential to the future of health care delivery in our nation and abroad, the Ph.D. program in Administration–Health Services provides doctoral-level training to individuals who will be our future health care leaders in academic and nonacademic research organizations.

We seek to recruit a diverse and talented group of national and international students who are attracted to careers in research and teaching. The educational experience in the Ph.D. program is characterized by exposure to the various disciplines relevant to health administration and policy from across the university, as well as one-on-one mentoring relationships with faculty. These experiences are expected to serve as a foundation for future research throughout the graduate careers.

## Additional Information

Deadline for Entry Term(s):	January 1st
Deadline for All Application Materials to be in the Graduate School Office:	March 15th
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE or GMAT (TOEFL also required for international applicants whose native language is not English.)
Comments:	Stipend support available

## Contact Information

For detailed information, contact the Program Office of the Doctoral Programs in Administration–Health Services, UAB School of Health Professions Building, 1705 University Boulevard, Birmingham, AL 35294-1212.  
 Telephone 205-934-3113  
 Fax 205-975-6608  
 E-mail [phdha@uab.edu](mailto:phdha@uab.edu)  
 Web [www.hsa.uab.edu](http://www.hsa.uab.edu)

Prospective students visit <http://www.uab.edu/shp/hsa/doctor-of-science-dsc-executive> to obtain specific admissions requirements on how to apply.

## Doctor of Science Program Information

The Doctor of Science (D.Sc.) in Administration-Health Services program is designed for healthcare executives who are seeking to engage in a rigorous course of study that will also permit them to retain their demanding work and life responsibilities. D.Sc. students are interested in continuing a practice-focused career, as opposed to the academic career sought by most residential Ph.D. students.

The program is offered by the Department of Health Services Administration. Faculty associated with the School of Public Health, Lister Hill Center for Health Policy, Center for Outcomes and Effectiveness Research and Education, and other national experts also contribute to student learning.

## Admission Requirements

Qualified applicants will preferably have a master's degree in health administration; health informatics; business administration; or a related field. Degree(s) must be from an accredited institution. In addition, qualified applicants will have a minimum of five years of mid- to senior-level managerial experience in health management.

Students whose first language is not English must submit recent scores for the Test of English as a Foreign Language (TOEFL) exam or IELTS. Applicants who have received a degree from an accredited U.S. institution or from institutions in countries where English is the primary language of instruction are not required to submit the TOEFL or IELTS score.

The UAB Graduate School has approved a waiver of the GRE/GMAT requirement for all applicants to the Executive Doctoral Program in Administration-Health Services.

The application procedure for the D.Sc. in Administration-Health Services Program requires both an application to the UAB Graduate School as well as supplemental materials that must be submitted directly to the D.Sc. Program Office. A full checklist of required items can be found on the "Application Process" page of the program website [www.uab.edu/execdoc](http://www.uab.edu/execdoc).

Applications are reviewed by the Admissions and Policy Committee of the Executive D.Sc. in Administration-Health Services Program. The committee forwards a recommendation to the Dean of the UAB Graduate School who then communicates official admission decisions via written letter.

As it is based on a cohort model, the Executive D.Sc. Program only admits for the fall of each year. Applicants who complete applications prior to February 1 will be given priority in the admission process. Applications received after February 1 will be considered on a space-available basis.

## Program of Study

The program of study consists of four components

1. Courses in administration and health systems,
2. Courses in research methodology and statistics,
3. Comprehensive examinations,
4. The doctoral dissertation.

Students must complete all coursework and pass a comprehensive examination before work can officially begin on the dissertation. The investigation and other special work leading to the dissertation must be performed directly under the guidance and supervision of a four-person committee of the UAB graduate faculty. The normal minimum period in which the doctoral degree can be earned is three years of full-time study.

## Degree Completion

The granting of the D.Sc. degree is based on completion of all required coursework, residency requirements, a comprehensive examination, dissertation requirements, and the recommendation of the Administration–Health Services graduate program director and the dissertation committee.

## Mission, Vision, and Values Statements

The mission of the Executive Doctoral Program is to develop highly qualified strategic management practitioners and scholars. We accomplish this mission through: our strategic management courses, faculty/student interaction, publishing and presenting our work, and teaching others.

## Additional Information

Deadline for Priority Application:	February 1st. After February 1st, applications will be considered on a space-available basis.
Number of Evaluation Forms Required:	Three
Entrance Tests:	TOEFL required for international applicants whose native language is not English.

## Contact Information

For detailed information, contact the Program Office of the Doctoral Programs in Administration–Health Services, UAB School of Health Professions Building, 1705 University Boulevard, Birmingham, AL 35294-1212.  
Telephone 205-934-3588  
Fax 205-975-6608  
E-mail [execdoc@uab.edu](mailto:execdoc@uab.edu) ([phdha@uab.edu](mailto:phdha@uab.edu))  
Web [www.uab.edu/execdoc](http://www.uab.edu/execdoc)

## Health Administration

Degree Offered:	M.S.H.A.
Residential and Executive M.S.H.A. Director:	Amy Yarbrough Landry, PhD
Phone:	(205) 936-7767
E-mail:	<a href="mailto:akyarb@uab.edu">akyarb@uab.edu</a>
Website:	<a href="http://www.uab.edu/msha">www.uab.edu/msha</a>

## Master of Science in Health Administration Program Information

The Master of Science in Health Administration (MSHA) Program, accredited by the Commission on Accreditation of Healthcare Management Education, trains executives for health services organizations. The program has graduated more than 1,300 persons since 1965.

Students must complete 23 graduate courses and a 12-month administrative residency in a health care organization. A capstone core course is completed during the last on-campus semester. Twenty-one core courses and two elective courses are required as well as a summer internship or international experience for single-degree MSHA students. All students begin in the fall term and complete coursework in 21 months followed by the administrative residency.

Complete applications for fall entry are due no later than the preceding November 1. Since admission to the MSHA program is very competitive, early application is encouraged.

- **Master of Science in Health Administration-Master of Business Administration**
- **Master of Science in Health Administration-Master of Science in Health Informatics**
- **Master of Science in Health Administration-Master of Public Health Coordinated Degrees**

Students wishing to pursue simultaneously the Master of Science in Health Administration (MSHA) and the Master of Business Administration (MBA) degrees must complete 29 graduate courses, including 1 elective. Students seeking to complete the Master of Science in Health Administration (MSHA) and the Master of Science in Health Informatics (MSHI) must complete 30 graduate courses including a summer internship. Students seeking to complete the Master of Science in Health Administration (MSHA) and the Master of Public Health must complete 27 graduate courses, including a summer internship. MSHA-MPH students will complete 13 hours of public health coursework in the summer term prior to MSHA program entry.

A 12-month administrative residency in a health services organization is required for completion of the MSHA degree. A student who enters a

coordinated program, but subsequently decides to pursue only one of the degrees, must satisfy all the requirements for the degree sought.

## Application Information

Applicants to the MSHA, MSHA-MBA, or MSHA-MSHI programs must have completed or anticipate completion of at least a baccalaureate degree from a regionally accredited college or university or from a recognized university abroad before entry into the program. Prior to matriculation, MSHA-MBA students must have successfully completed three semester credit hours in pre-calculus to meet MBA requirements. Application for the MSHA program should be made by visiting the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button.

Telephone 205-934-1583  
E-mail [parmstrong@uab.edu](mailto:parmstrong@uab.edu)  
Web [www.uab.edu/msha](http://www.uab.edu/msha)

## Additional Information

Deadline for Entry Term(s):	Fall
Deadline for All Application Materials to be in the Graduate School Office:	December 1 for first priority and June 1 if space is still available
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (minimum composite score of 300) or GMAT (minimum score of 480) is required for Residential applicants only. TOEFL and TWE are also required for all international applicants whose native language is not English.
Comments:	Additional application for admission is required by program

For detailed information, contact Admissions Coordinator, Department of Health Services Administration, UAB School of Health Professions, SHPB 567, 1720 2nd Avenue South, Birmingham, AL 35294-3361.  
Telephone 205-934-1583  
E-mail [parmstrong@uab.edu](mailto:parmstrong@uab.edu)  
Web [www.uab.edu/msha](http://www.uab.edu/msha)

## Executive Master of Science in Health Administration Program Information

Qualified students can earn the Master of Science in Health Administration (MSHA) by completing the Executive format. This program is open to individuals with at least 5 years of experience in health care organizations, either as managers or as clinical professionals. Participants in the MSHA program (Executive format) complete both on-campus and distance-learning activities, and a brief field experience, within 2 years of study.

## Executive Health Administration and Master of Science in Healthcare Quality and Safety Coordinated Degree

Students wishing to pursue simultaneously the executive format of the Master of Science in Health Administration and the Master of Science in Healthcare Quality and Safety degrees must be accepted into both programs and complete twenty-eight (28) courses, including

an interactive capstone experience course. A student who enters a coordinated program, but subsequently decides to pursue only one of the degrees, must satisfy all the requirements of the degree sought.

## Healthcare Quality and Safety Certificate for Executive Master of Science in Health Administration

Students enrolled in the Executive Master of Science in Health Administration program, may pursue a graduate certificate in Healthcare Quality and Safety. To obtain the certificate, Executive MSHA students may add an online HQS certificate course in each fall and spring term, increasing their credits hours from 9 to 13. For more information, please contact the HQS or MSHA programs.

### Contact Information

For detailed information, contact Admissions Coordinator, Department of Health Services Administration, UAB School of Health Professions, SHPB 590C, 1720 2nd Avenue South, Birmingham, Alabama 35294-3361  
 Telephone 205-996-6593  
 E-mail [hjlee@uab.edu](mailto:hjlee@uab.edu) ([sarap@uab.edu](mailto:sarap@uab.edu))  
 Web [www.uab.edu/msha](http://www.uab.edu/msha)

## Graduate Certificate in Healthcare Financial Management

Any student who receives three "C"s or one "F" in any graduate level course while in the MSHA program will be dismissed from the program.

Requirements	Hours
HA 620 Healthcare Financial Management I	3
HA 621 Healthcare Financial Management II	3
HA 623 Application of Health Care Finance Principles	3
HA 624 Revenue Cycle Management	3
<b>Select one elective from the list below:</b>	
MBA 621 Topics in Corporate Finance	3
MBA 622 Portfolio Theory and Construction	3
MBA 624 Global Financial Management	3
MBA 629 Treasury Management	3
MBA 626 Credit Markets and Instruments	3
<b>Total Hours</b>	<b>15</b>

## Graduate Certificate in Gerontology

Any student who receives three "C"s or one "F" in any graduate level course while in the MSHA Program will be dismissed from the program.

Requirements	Hours
HA 697 Independent Study	3
GRD 600 Core Issues in Aging	3
HCO 620 Health Insurance & Managed Care	3
HCO 680 Aging Policy	3
<b>Total Hours</b>	<b>12</b>

## Executive Master of Science in Health Administration

The Executive MSHA Program requires a minimum of 57 semester hours for the MSHA degree. Any student who receives three "C"s or one "F" in

any graduate level course while in the MSHA Program will be dismissed from the program.

Requirements	Hours
HA 602 Introduction to Health Care Systems	3
HA 605 Health Policy and Politics in the U.S.	3
HA 606 Operations Management & Process Improvement in Health Care Organizations	4
HA 612 Essentials of Health and Human Disease	3
HA 613 Health Law	3
HA 614 Process Improvement	3
HA 620 Healthcare Financial Management I	3
HA 621 Healthcare Financial Management II	3
HA 625 Strategic Planning and Management	3
HA 631 Organization Theory and Behavior	3
HA 632 Quantitative Methods in Health Services Admin	3
HA 635 Human Resources Management in Health Services Administration	3
HA 637 Leadership	3
HA 640 Information Systems and Management Science in Health Services Administration	3
HA 645 Health Economics	3
HA 655 Seminar: Synthesis of Health Services Administration	3
HA 671 Health Care Marketing	3
HA 674 Health Care Innovation	3
HA 695 Independent Study	3
<b>Total Hours</b>	<b>58</b>

## Residential Master of Science in Health Administration

Any student who receives three C's or one F in any graduate level program will be dismissed from the program.

Requirements	Hours
HA 602 Introduction to Health Care Systems	4
HA 605 Health Policy and Politics in the U.S.	3
HA 606 Operations Management & Process Improvement in Health Care Organizations	4
HA 612 Essentials of Health and Human Disease	3
HA 613 Health Law	3
HA 620 Healthcare Financial Management I	3
HA 621 Healthcare Financial Management II	3
HA 625 Strategic Planning and Management	3
HA 628 Leadership Development	3
HA 631 Organization Theory and Behavior	3
HA 632 Quantitative Methods in Health Services Admin	3
HA 635 Human Resources Management in Health Services Administration	3
HA 671 Health Care Marketing	3
HA 675 Health Administration Internship	3
HA 680 Health Administration Capstone	2
Administrative Residency (take twice)	10
HA 690 Administrative Residency	3
HCO 601 Health Economics	3
HI 640 Intro to Health Informatics and Health Care Delivery	3
MBA 601 Accounting and Finance for Managers	3

Two Electives <sup>1</sup>	6
<b>Total Hours</b>	<b>71</b>

## Dual Master of Science in Health Administration and Master of Science in Health Informatics

Any student who receives three C's or one F in any graduate level course while enrolled in the MSHA program will be dismissed from the program.

Requirements	Hours
HA 602 Introduction to Health Care Systems	4
HA 605 Health Policy and Politics in the U.S.	3
HA 606 Operations Management & Process Improvement in Health Care Organizations	4
HA 612 Essentials of Health and Human Disease	3
HA 613 Health Law	3
HA 620 Healthcare Financial Management I	3
HA 621 Healthcare Financial Management II	3
HA 625 Strategic Planning and Management	3
HA 628 Leadership Development	3
HA 631 Organization Theory and Behavior	3
HA 632 Quantitative Methods in Health Services Admin	3
HA 635 Human Resources Management in Health Services Administration	3
HA 671 Health Care Marketing	3
HA 680 Health Administration Capstone	2
<b>Administrative Residency (take twice)</b>	<b>10</b>
HA 690 Administrative Residency	
HCO 601 Health Economics	3
One Elective <sup>1</sup>	3
<b>Total Hours</b>	<b>59</b>

## Dual Master of Science in Health Administration and Master of Business Administration

Any student who receives three C's or one F in any graduate level course while enrolled in the MSHA program will be dismissed from the program.

Requirements	Hours
HA 602 Introduction to Health Care Systems	4
HA 605 Health Policy and Politics in the U.S.	3
HA 606 Operations Management & Process Improvement in Health Care Organizations	4
HA 612 Essentials of Health and Human Disease	3
HA 613 Health Law	3
HA 620 Healthcare Financial Management I	3
HA 621 Healthcare Financial Management II	3
HA 625 Strategic Planning and Management	3
HA 628 Leadership Development	3
HA 631 Organization Theory and Behavior	3
HA 632 Quantitative Methods in Health Services Admin	3
HA 635 Human Resources Management in Health Services Administration	3
HA 671 Health Care Marketing	3
HA 680 Health Administration Capstone	2
<b>Administrative Residency (take twice)</b>	<b>10</b>

HA 690 Administrative Residency	
HCO 601 Health Economics	3
One Elective <sup>1</sup>	3
<b>Total Hours</b>	<b>59</b>

<sup>1</sup> Pre-approved Electives: HA 623, HA 624, HA 675, HCO 620, HI 600, HI 640, HI 650, HI 651, HQS 600, HQS 625, HQS 635, MBA 690

## Health Informatics

Degree Offered:	M.S.H.I.
Program Director:	Sue S. Feldman, RN, MEd, PhD
Phone:	(205) 934-3509
E-mail:	mshi@uab.edu
Website:	www.uab.edu/hi

## Master of Science in Health Informatics Program Admission

Admission to the program is in the fall semester. Application to the program may be made September through May 31, preceding the expected date of enrollment for the next fall term. Applications received after May 31 are considered on a space-available basis. Applications are evaluated against the Graduate School criteria and those criteria developed specifically for the HI program. The ideal size of each entering class is 30 to 35 students.

## Admission Requirements

Admission to the program requires acceptance to the Graduate School of The University of Alabama at Birmingham. Applicants must have completed or anticipate completion of at least a baccalaureate degree from a regionally accredited college or university or from a recognized university abroad before entering the program. As a criterion for unconditional admission, applicants must have no less than a B GPA (3.0 on a 4.0 scale) for the last 60 semester hours of earned undergraduate credit or overall undergraduate credit or overall undergraduate hours. Official transcripts of all previous academic work beyond the secondary level should be submitted. Before matriculation, entering students must have received a final transcript for each degree received.

The applicant should include a carefully drafted statement about his or her personal interests, career goals, and relevant background experience and a professional resume. Three **confidential** letters of recommendation from individuals qualified to write concerning the applicant's potential for success in both a graduate program and in the Health Informatics field must be submitted.

Prior to entering the program, applicants should have completed three hours of undergraduate or graduate course work in statistics and in SQL programming or a relevant continuing education course.

Admission to the MSHI program is determined by an interview process and the consensus of the Admissions Committee. The decision is based on previous academic record, professional recommendations as evidence of ability to perform graduate-level work, and an interview with two faculty members. The program director reserves the prerogative for final recommendation on admission status to the Graduate School.

Applicants accepted to the program must complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy.

### Additional Information

Deadline for Entry Term(s):	Fall
Deadline for All Application Materials to be in the Graduate School Office:	June 15
Number of Evaluation Forms Required:	Three Professional Letters of Recommendation
Entrance Tests:	(TOEFL and TWE also required for international applicants whose native language is not English.)
Length of Study:	45 Credit Hours

### Program Overview

Based on the needs of health care CIOs, UAB’s MSHI curriculum integrates the domains of information and communication technology, the healthcare delivery process, and leadership and management principles. This collaborative approach to healthcare IT allows our graduates to understand the complexity of relationships that must be considered when making technology decisions in a healthcare setting.

Our students graduate with a solid understanding of how clinicians and administrators use information and technology in making decisions. With courses in the effective design and use of information systems, databases, software, hardware and networks, students also learn how to successfully manage the flow of information throughout a healthcare organization and the value of building a solid business case for the purchase, implementation, and use of technology in a healthcare setting. Graduates are prepared to become senior and executive level leaders in the healthcare IT industry. Students are exposed to a variety of academic disciplines and gain a broad education that serves as a foundation for them throughout their careers as information and health service executives.

The program is comprised of a core curriculum plus one track of the student’s choosing. The first year of the MSHI core curriculum includes HI 640-Introduction to Health Informatics and the US Healthcare Delivery System, HI 600-Anlysis & Design of Information Systems in Healthcare, HI 601-Databases and Data Modeling, HI 602-Clinical & Administrative Systems, HI 630-Strategic Planning and Contracting, HI 620-Security and Privacy in Healthcare. During the second year, students complete the MSHI core by taking HI 686-Leadership Theory, HI 687-Leadership Development and HI 688-Leadership Advocacy.

### Data Analytics Track

The proliferation of information technology to support workers in the healthcare industry has resulted in a massive amount of healthcare data being generated. While the data are seen as an organizational asset that can both help determine trends and patterns in patient care delivery and increase organizational efficiency, there are very few individuals trained to extract, combine, organize, interpret, and display these data in meaningful ways. This track produces graduates who help healthcare organizations institute data-driven decision-making processes. Beyond that, graduates of this track in the MSHI program are trained to assist organizations with developing data governance strategies, which help

them define the way they think about quality, security, access to data, and policies surrounding data.

Courses in the Data Analytics Track include HI 632-Quantitative Methods for Health Informatics, HI 660-Advanced Requirements Analysis, HI 661-Advanced Database Design and SQL for Healthcare, HI 662-Healthcare Business Intelligence and HI 664-Data Analytics Capstone Project.

Entry into this track requires admission to the MSHI Program and completion of the first year MSHI core curriculum. Declaration for this track occurs in the first summer semester of the student’s first year in the program.

### User Experience Track

Information technology (IT) has facilitated many significant improvements to the way that we deliver patient care. But, most IT solutions currently in use by healthcare organizations were not designed to enable new models of healthcare delivery and will require development of more intuitive interfaces that model the behaviors and needs of patients and clinical end users. New products and software cannot be perceived as too difficult to use, nor can they compromise clinicians’ ability to interact meaningfully with their patients. Graduates of the Healthcare User Experience Track bring an in-depth understanding of a complex healthcare delivery system, the technologies that are required to support patient care delivery, and the understanding of best practices in designing safe, effective, and user-friendly products and software in a healthcare setting.

Courses in the User Experience Track include HI 650-Foundations of Healthcare User-Based Design, HI 651-Foundations of Healthcare User-Based Research, HI 652-Design Thinking for Healthcare, HI 653-Managing the User-Centered Development Process and HI 654-HealthcareUser Experience Capstone Project.

Entry into this track requires admission to the MSHI Program and completion of the first year MSHI Core. Declaration for this track occurs in the first summer semester of the student’s first year in the program.

### Clinical Informatics Graduate Certificate

The Clinical Informatics Graduate Certificate is designed as a high-quality, rigorous educational forum for practicing clinicians interested in advancing their informatics skills. Students will develop a broad understanding of the strategic application of clinical and administrative information systems, the data contained in these systems, and the people and processes required for effective information systems deployment. Expanding the number of clinical professionals who can act as health informatics champions in healthcare organizations is needed to enable achievement of the ‘triple aim’ in healthcare – high quality health care, improved population health, and efficient use of healthcare resources.

The curriculum is delivered online, and is comprised of 15 credit hours (4 courses) that may be completed in two academic terms. Graduates of the program will be eligible to sit for the Clinical Informatics Subspecialty Board Examination offered by the American Board of Preventive Medicine and the American Board of Pathology. Applicants must be admitted to the UAB Graduate School and to the Clinical Informatics Graduate Certificate program.

### Additional Information

Requirement	Fulfilled By:
Deadline for Entry Term(s):	Fall

Deadline for All Application Materials to be in the Graduate School Office:	June 1
Length of Study:	15 Credit Hours

## Contact Information

For detailed information, contact the Director of Operations, Amanda Dorsey, Master of Science in Health Informatics Program, UAB School of Health Professions, SHPB 590B. Physical address: 1716 9th Avenue South. Mailing address: 1720 2nd Avenue South, Birmingham, AL 35294  
 Telephone 205-975-9895  
 Fax 205-975-6608  
 E-mail [mshi@uab.edu](mailto:mshi@uab.edu)

## Graduate Certificate in Clinical Informatics

Requirements	Hours
HI 640 Intro to Health Informatics and Health Care Delivery	4
HI 600 Analysis and Design of Health Information Systems	4
HI 602 Clinical and Administrative Systems	3
HI 685 Principles in Health Informatics	4
<b>Total Hours</b>	<b>15</b>

## Master of Science in Health Informatics

The MSHI Program follows a Core/Track model which consists of a total of 45 semester hours. 28 semester hours are taken in the core Informatics courses. The remaining 17 semester hours are taken in one of 2 specialty tracks (Healthcare User Experience, Healthcare Data Analytics.)

The MSHI Program allows students to earn only two grade of "C" during their time in the program. Upon earning a third grade of "C", the student will be dismissed from the program. Any final grade of "D" or below in any course will result in dismissal from the program.

Requirements	Hours
HI 600 Analysis and Design of Health Information Systems	4
HI 602 Clinical and Administrative Systems	3
HI 601 Databases and Data Modeling	3
HI 620 Security and Privacy in Health Care	4
HI 630 Strategic Planning and Contracting for Health Information Systems	4
HI 640 Intro to Health Informatics and Health Care Delivery	4
HI 686 Leadership Theory	1
HI 687 Leadership Development	1
HI 688 Leadership Advocacy	1
HI 685 Principles in Health Informatics	3
<b>Total Hours</b>	<b>28</b>

## Healthcare Data Analytics Track

Requirements	Hours
HI 660 Healthcare Requirements Analysis	3
HI 661 Advanced Database Design and SQL for Healthcare	3
HI 662 Healthcare Business Intelligence	3
HI 632 Quantitative Methods for Health Informatics	3

HI 664 Data Analytics Capstone Project	5
<b>Total Hours</b>	<b>17</b>

## Healthcare User Experience Track

Requirements	Hours
HI 650 Foundations of Healthcare User-Based Design	3
HI 651 Foundations of Healthcare User-Based Research	3
HI 652 Design Thinking for Healthcare	3
HI 653 Managing the User-Centered Development Process	3
HI 654 Healthcare User Experience Capstone Project	5
<b>Total Hours</b>	<b>17</b>

## Healthcare Quality and Safety

Degree Offered:	M.S.
Interim Program Director:	Sue S. Feldman, RN, MEd, PhD
Phone:	(205) 934-3509
E-Mail:	<a href="mailto:askhqs@uab.edu">askhqs@uab.edu</a>
Website:	<a href="http://www.uab.edu/hqs">www.uab.edu/hqs</a>

## Master of Science in Healthcare Quality and Safety

The Master of Science in Healthcare Quality and Safety will prepare individuals to provide leadership in the design, implementation, and evaluation of clinical and non-clinical process improvement and patient safety activities in complex healthcare environments. The program will comprise a didactic and experiential curriculum including:

- Quantitative and analytical methods and statistical process control techniques
- Quality management models such as PDSA, Lean, and Six Sigma
- Risk and patient safety assessment and management techniques
- Implementing and managing cultural and organizational change
- Team leadership and communication
- Leadership of high reliability organizations
- Integrative capstone project

The program is housed in the Department of Health Services Administration (HSA) in the School of Health Professions. The HSA Department offers graduate degrees in health administration and health informatics, both of which include courses with leadership, quality improvement, and data analytics content, as well as a graduate degree in healthcare simulation, and a graduate certificate in Healthcare Quality and Safety (HQS).

## Admission Requirements

Admission requirements include eligibility for admission to the UAB Graduate School, and at least two years of relevant work experience in the healthcare industry. Applicants must have completed a bachelor's degree (or higher) from an accredited college or university or from a recognized university abroad, with a minimum GPA of 3.0 in course work.

Additional requirements will include completion of a program-specific application showing quality or safety-related employment and previous relevant training, personal statement regarding interest in the program, and prior completion of a basic statistics course.

An admissions committee comprised of program administrators and HQS course directors will review applications and make final admission decisions based on desired cohort size. Application to the program may be made September through May 31, preceding the expected date of enrollment for the next fall term. Applications received after May 31 are considered on a space-available basis.

Entry Term:	Fall Semester
Deadline for All Application Materials to be in the Graduate School Office:	June 15, after June 15 applications will be considered on a space available basis
Length of Study:	36 Credit Hours
Number of Evaluation Forms Required:	Three Professional Letters of Recommendation

## Master of Science in Healthcare Quality and Safety and Executive Health Administration Coordinated Degree

Students wishing to pursue simultaneously the Master of Science in Healthcare Quality and Safety and the executive format of the Master of Science in Health Administration degrees must be accepted into both programs and complete twenty eight (28) courses, including an interactive capstone experience course. A student who enters a coordinated program, but subsequently decides to pursue only one of the degrees, must satisfy all the requirements of the degree sought.

## Healthcare Quality and Safety Graduate Certificate

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered:	Graduate Certificate
Interim Program Director:	Sue S. Feldman, RN, MEd, PhD
Medical Director:	Scott Buchalter, MD
Phone:	(205) 994-3509
E-Mail:	askhqs@uab.edu
Website:	www.uab.edu/hqs

## Program Information

The Graduate Certificate in Healthcare Quality and Safety is a unique, multidisciplinary approach to the analysis and solution of complex problems. The program, which is offered totally online, prepares clinical and administrative professionals to deploy quality- and safety-focused strategies for their organizations. HQS is a high quality, academically rigorous forum for developing the individual knowledge and skills needed to conduct clinical practice and non-clinical process improvement projects in a complex medical environment.

The certificate program, housed in the Department of Health Services Administration in the School of Health Professions, requires a combined approach using data and models from the natural, social, technological, behavioral and life sciences, and other specialized fields. The curriculum is delivered by an interdisciplinary team of faculty from the University of

Alabama at Birmingham Schools of Health Professions, Nursing, Public Health and Medicine.

## Admission Requirements

- Undergraduate, graduate or professional degree in a health-related field and at least two years of experience in health care
- Personal statement regarding interest in the program and the identification of a quality related project topic
- Minimum G.P.A of 3.00 or above for the past 60 hours of course work
- Non-refundable application fee of \$45, payable online
- Official transcripts of all previous academic work beyond the secondary level
- Current Resumé or CV which outlines your professional work experience
- Three professional letters of recommendation

Entry Term:	Fall and Spring Semesters
Deadline for All Application Materials to be in the Graduate School Office:	June 15, after these deadlines, applications will be considered on a space available basis
Length of Study:	15 Credit Hours

## Required Coursework

Requirements	Hours
HQS 600 Introduction to Clinical Quality Improvement	4
HQS 610 Quantitative Methods, Measurement, and Tools for Quality Improvement	4
HQS 625 Fundamentals of Patient Safety	4
HQS 630 Leadership of High Reliability Healthcare Organizations	3
<b>Total Hours</b>	<b>15</b>

## Healthcare Quality and Safety Certificate for Executive Master of Science in Health Administration

Students enrolled in the Executive Master of Science in Health Administration program, may pursue a graduate certificate in Healthcare Quality and Safety. To obtain the certificate, Executive MSHA students may add an online HQS certificate course in each fall and spring term, increasing their credits hours from 9 to 13. For more information please contact the HQS or MSHA programs.

## Contact Information

For detailed information, contact the Department of Health Services Administration, Healthcare Quality and Safety Program, UAB School of Health Professions, SHPB 590B, 1716 9th Avenue, Birmingham, Alabama 35294-1212.

Telephone 205-975-9895.

E-mail HQS (SHRP-GCHQS@uab.edu)

Website: <http://www.uab.edu/shp/hsa/healthcare-quality-and-safety-programs>

## Graduate Certificate in Healthcare Quality and Safety

A student who receives three grades of "C", or any grade of "F" on any course taken in pursuit of the HQS Graduate Certificate will be dismissed from the program.

Requirements	Hours
HQS 600 Introduction to Clinical Quality Improvement	4
HQS 610 Quantitative Methods, Measurement, and Tools for Quality Improvement	4
HQS 625 Fundamentals of Patient Safety	4
HQS 630 Leadership of High Reliability Healthcare Organizations	3
<b>Total Hours</b>	<b>15</b>

## Master of Science in Healthcare Quality and Safety

A student who receives three grades of "C", or any grade of "F" on any course taken in pursuit of the MS degree in Healthcare Quality and Safety will be dismissed from the program.

Requirements	Hours
HQS 600 Introduction to Clinical Quality Improvement	4
HQS 610 Quantitative Methods, Measurement, and Tools for Quality Improvement	4
HQS 612 Health Data Management and Analytics for Enterprise Performance Improvement	4
HQS 615 Collaborative Analytics for Quality and Safety Improvement	3
HQS 625 Fundamentals of Patient Safety	4
HQS 630 Leadership of High Reliability Healthcare Organizations	3
HQS 635 Healthcare Policy and Regulation	3
HQS 675 Evaluating and Designing Quality Improvement Models	3
HQS 698 Integrative Capstone Experience/Non-Thesis Project	3
HA 650 Management and Leadership Skills for Clinical Professionals	1-3
<b>Students must take 3 hours of elective credit from the following options:</b>	<b>3</b>
HCM 550 Healthcare Lean Six Sigma Green Belt Seminar	
HI 650 Foundations of Healthcare User-Based Design	
HI 651 Foundations of Healthcare User-Based Research	
HI 652 Design Thinking for Healthcare	
HRP 575 Introduction to Healthcare Simulation for Quality and Safety	
HCO 612 Strategic Management in Health Programs	
HCO 620 Health Insurance & Managed Care	
HCO 621 Clinical Decision Making and Cost-Effectiveness Analysis	
HCO 677 Patient-Based Outcomes Measurement	
<b>Total Hours</b>	<b>35-37</b>

## Nutrition Sciences

### Nutrition Sciences

The School of Health Professions Department of Nutrition Sciences offers the most comprehensive nutrition education experience you will find on

one campus. Everything you need to learn to save lives, prevent disease, and improve quality of life can be found at UAB.

You can study the clinical side of nutrition in the heart of Alabama's top medical center, a dynamic academic campus environment surrounded by highly regarded medical facilities such as UAB Hospital, Birmingham VA Medical Center, and Children's of Alabama. The Nutrition Department offers an undergraduate minor in Nutrition Sciences, a Master of Science in Nutrition Sciences (multiple concentration tracks available), and a Doctor of Philosophy in Nutrition Sciences.

## Master of Science Program in Nutrition Sciences (NS)

Degree Offered:	M.S.
Director:	Dr. Brenda Bertrand
Phone:	(205) 934-8770
E-mail:	brendamb@uab.edu
Web site:	www.uab.edu/nutrition

The MS in Nutrition Sciences provides experiences that foster understanding about nutrition research, health promotion, and disease prevention. Students choose from various available track options as described below.

## Admission to the Master of Science Program in Nutrition Sciences

The Nutrition Sciences graduate program recommends fall-term entry. Interested students must first obtain admission to the UAB Graduate School. Graduate School admission standards include:

1. A 'B' average computed overall, or alternatively computed over the last 60 semester hours of earned credit;
2. Evidence of a bachelor's degree from a regionally accredited university or college in the United States;
3. GRE Score within the past five years; competitive candidates have a combined GRE score of at least 300 on the verbal and quantitative sections (GRE not required for Prior Learning option); and
4. Complete a criminal background check and drug screen at program admission and again prior to clinical placement as required by school policy for select tracks. Please check with the program for specific track requirements.

Additional requirement for the Clinical/Dietetic Internship Track only:

1. Evidence of a bachelor's degree from a Didactic Program approved by the Accrediting and Credentialing of Education for Nutrition and Dietetics (ACEND).

## Degree Requirements

The MS in Nutrition Sciences requires successful completion of 14 semester hours in core courses, and additional specific courses for each of the tracks.

## Core Requirements

Requirements	Hours
NTR 618 Nutritional Biochemistry	6
NTR 621 Applied Statistics to Nutrition Sciences I	3
NTR 637 Applied Research in Nutrition Sciences	3

NTR 690	Seminar	2
<b>Total Hours</b>		<b>14</b>

## Additional Information

Deadline for Entry Term(s):	Fall and Summer
Deadline for All Application Materials to be in the Graduate School Office:	Six weeks before term begins
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.)

For detailed information, contact:

**Dr. Brenda Bertrand, Professor and Director, Graduate Program in Nutrition Sciences**

**Department of Nutrition Sciences, UAB School of Health Professions**

**Webb Building, Room 534, 1675 University Boulevard, Birmingham, AL 35294-3360**

**Telephone: 205-934-8770**

**E-mail: bertrandmb@uab.edu (miller1@uab.edu)**

**Website: www.uab.edu/shp/nutrition/education**

## Master of Science in Nutrition Sciences-Lifestyle Management and Disease Prevention Track

Students in the MS in NS Lifestyle Management and Disease Prevention Track must complete 36 semester hours of graduate-level coursework (14 semester hours in core courses, 19 semester hours of required courses, and 3 semester hours of graduate-level elective coursework).

This is a non-thesis track and all coursework is offered online.

Prerequisite requirements include successful completion (with a grade of C or higher) in undergraduate courses, three semester hours each in the following subject areas: Introductory Nutrition, Biology, Organic Chemistry, Physiology, and Microbiology.

Requirements	Hours
NTR 609 Applied Nutrition for Physical Activity and Disease Prevention	3
NTR 632 Nutrition Counseling and Education	4
NTR 631 Community Interventions for Healthy Lifestyles	3
KIN 637 Physiology of Exercise I	3
CDS 545 Genetics and Genomics Applications in Healthcare	2
CDS 550 Introduction to Medical History Taking and Physical Examination	3
CDS 605 Survival Spanish for Health Professionals	1
Elective	3
<b>Total Hours</b>	<b>22</b>

## Master of Science in Nutrition Sciences-Research Track

Students in the MS in NS Research Track must complete 37 semester hours of graduate-level coursework (14 semester hours in core courses,

20 semester hours of required track courses, and 3 semester hours of elective credits). Students in the Research Track are required to complete and orally defend thesis research that contributes to the knowledge of nutrition sciences (NTR 698 and NTR 699). All non-research coursework is offered online.

Requirements	Hours
NTR 623 Applied Statistics to Nutrition Sciences II	3
NTR 636 Scientific Methods	3
NTR 698 Master's Level Non-Thesis Research	2
NTR 699 Master's Level Thesis Research	6
NTR 733 Laboratory Instruments and Methods in Nutrition Research	1
Seminar	2
NTR 788 Advanced Nutrition Seminar	
GRD 717 Principles of Scientific Integrity	3
Elective	3
<b>Total Hours</b>	<b>23</b>

## Master of Science in Nutrition Sciences-Clinical Track/Dietetic Internship

Students in the MS in NS Clinical Track/Dietetic Internship must complete 48 semester hours of graduate-level coursework (14 semester hours in core courses and 34 semester hours of required track courses). Students are required to complete 1,200 contact hours of supervised professional practice in nutrition and dietetics (NTR 589). This is a non-thesis track. All non-practicum course work is offered online. Fall term admission only. Only students who have completed an undergraduate degree in Nutrition Dietetics from an ACEND accredited program are eligible to apply.

Requirements	Hours
NTR 500 Communications in Nutrition	1
NTR 601 Advanced Medical Nutrition	3
NTR 604 Principles and Practice of Nutrition Support	3
NTR 611 Advanced Food System and Resource Management	3
Internship Practicum	24
NTR 589 Internship Practicum	
<b>Total Hours</b>	<b>34</b>

## Clinical Track / Dietetic Internship Accreditation

The Clinical Track / Dietetic Internship is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and is designed to prepare entry-level dietitians for careers in a variety of health care, wellness, and community settings. Admission to this track is awarded on a competitive basis through a national computer matching process. Upon acceptance into the dietetic internship, you must then apply to be admitted to the UAB Graduate School.

An onsite internship is offered in Birmingham, and offsite in Huntsville, Mobile, and Montgomery. Upon completion of the program, you are eligible to take the national examination to become a registered dietitian nutritionist (RDN).

## Additional Information

For detailed information, contact:

**Mrs. Carleton Rivers, Assistant Professor and Dietetic Internship Director**

**Department of Nutrition Sciences, UAB School of Health Professions**

**Webb Building, Room 540, 1675 University Boulevard, Birmingham, AL 35294-3360**

**Telephone: 205-934-3223**

**E-mail: meadows4@uab.edu (dintr@uab.edu)**

**Website: www.uab.edu/shp/nutrition/education/dietetic-internship**

## **Master of Science in Nutrition Sciences-Clinical Track/Dietetic Internship/MPH Dual Degree**

Students in the Dietetic Internship/MPH Dual Degree program must complete 30 semester hours of graduate-level coursework, which is in addition to the requirements of the MS in NS Clinical Track/Dietetic Internship program. All coursework is offered online.

Only students who are enrolled in the MS in NS Clinical Track are eligible to apply.

<b>Requirements</b>	<b>Hours</b>
HCO 600 Management and Policy in Public Health Systems and Services	3
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
HB 600 Social and Behavioral Sciences in Public Health	3
EPI 610 Principles of Epidemiologic Research	4
PUH 695 The Public Health Integrative Experience	1
MPH Focus Courses	12
<b>Total Hours</b>	<b>30</b>

For further information about the MPH component of the program, contact:

**Angela Sullivan, Director of Enrollment Management  
University of Alabama at Birmingham School of Public Health**

**1720 2<sup>nd</sup> Avenue South, 130 Ryals Public Health Building, Birmingham AL 35294-0022**

**Telephone: 205-934-2684**

**E-mail: amsulli@uab.edu**

**Website: http://www.soph.uab.edu/dual-degree-programs**

## **Master of Science in Nutrition Sciences-Clinical Track/Prior Learning Option**

Students in the MS in NS Clinical Track/Prior Learning Option must complete 30 semester hours of graduate-level coursework (14 semester hours in core courses, 10 semester hours of required track courses, and 6 semester hours of elective credits). Only students who have a verification certificate demonstrating successful completion of 1,200 hours of supervised practice from a program accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) are eligible to apply. This is a non-thesis track and all required coursework is offered online.

<b>Requirements</b>	<b>Hours</b>
NTR 500 Communications in Nutrition	1
NTR 601 Advanced Medical Nutrition	3
NTR 604 Principles and Practice of Nutrition Support	3
NTR 611 Advanced Food System and Resource Management	3
Electives	6
<b>Total Hours</b>	<b>16</b>

## **Ph.D. Program in Nutrition Sciences (NS)**

Degree Offered:	Ph.D.
Director:	Dr. Jose Fernandez
Phone:	(205) 934-2029
E-mail:	jose@uab.edu
Web site:	www.uab.edu/nutrition

The program leading to the Ph.D. in Nutrition Sciences at UAB is designed to provide coursework and research experience that emphasizes the science of nutrition in maintaining the health of individuals and populations and preventing a variety of diseases. The doctoral program combines required and elective didactic coursework in basic sciences and nutrition with research incorporating basic science, clinical applications, and translational research conducted in superb facilities in an outstanding research environment.

### **Admission for PhD in NS**

To meet Graduate School and departmental standards for admission into the PhD in NS, a student must have a combined GRE score of 310 (GRE completed within the past 5 years), an undergraduate degree with a strong science background, three letters of recommendation based on thorough knowledge of the applicant's background and abilities, and, of great importance, a statement of goals and purpose that delineates the student's motivation and purpose in seeking this degree.

### **Coursework and Other Requirements**

Successful completion of the Ph.D. will require completion of a minimum of 14 semester hours in core courses (encompassing the disciplines of biochemistry, nutritional biochemistry, statistics, and experimental design) and at least 24 additional graduate semester hours of required and elective coursework from nutrition and other disciplines; passing a comprehensive written qualifying examination; and defense of a dissertation reporting the results of original scientific research that makes a genuine contribution to the knowledge of nutrition sciences. In fulfilling the latter requirement, with rare exceptions, a student must author at least two papers that are publishable in peer-reviewed journals, with one paper already published at the time of dissertation defense.

### **Additional Information**

For detailed information, contact Dr. José R. Fernández, Director of the Ph.D. Program in Nutrition Sciences, Department of Nutrition Sciences, UAB School of Health Professions, Susan Mott Webb Nutrition Sciences Building, Room 522, 1675 University Boulevard, Birmingham, AL 35294-3360.

Telephone 205-975-2029

E-mail phdntr@uab.edu

Web www.uab.edu/nutrition

## Core Classes must include:

Requirements		Hours
Core Courses:		
NTR 621	Applied Statistics to Nutrition Sciences I	3
NTR 623	Applied Statistics to Nutrition Sciences II	3
NTR 637	Applied Research in Nutrition Sciences	3
NTR 690	Seminar	2
NTR 718	Nutritional Biochemistry	6
Required Courses:		
GRD 717	Principles of Scientific Integrity	3
NTR 733	Laboratory Instruments and Methods in Nutrition Research	2
NTR 736	Scientific Methods	3
NTR 747	Molecular Biology and Nutrition Sciences	3
NTR 779	Obesity in the 21st Century	3
NTR 788	Advanced Nutrition Seminar (Required each Fall and Spring semester for a total of 5 credits)	1
<b>Total Hours</b>		<b>32</b>

## Elective classes:

Requirements		Hours
NTR 604	Principles and Practice of Nutrition Support	3
NTR 609	Applied Nutrition for Physical Activity and Disease Prevention	3
NTR 631	Community Interventions for Healthy Lifestyles	3
NTR 632	Nutrition Counseling and Education	4
NTR 701	Advanced Medical Nutrition	3
NTR 722	Recent Advances in Nutrition and Cancer Research	3
NTR 745	Origin of Cancer: Microenviron	1
NTR 750	Body Composition and Energy Metabolism	3
NTR 755	Teaching Practicum in Nutrition Sciences	3
NTR 769	Race, Nutrition and Health	3

## Occupational Therapy

Degree Offered:	Master of Science
Director:	Dr. Gavin Jenkins
Phone:	(205) 934-7324 or (205) 934-8623
Website:	<a href="http://www.uab.edu/shp/ot/">http://www.uab.edu/shp/ot/</a>
Degree Offered:	Occupational Therapy Clinical Doctorate (OTD)
Director:	Dr. Laura Vogtle
Phone:	(205) 934-7326
Website:	<a href="http://www.uab.edu/shp/otd">http://www.uab.edu/shp/otd</a>
Degree Offered:	Graduate Certificate
Director:	Dr. Beth Barstow
Phone:	(205) 934-7321
Website:	<a href="http://www.uab.edu/shp/ot/low-vision-rehabilitation">http://www.uab.edu/shp/ot/low-vision-rehabilitation</a>

## Low Vision Rehabilitation, Graduate Certificate

The Graduate Certificate in Low Vision Rehabilitation is a practice oriented certificate degree program that prepares occupational therapists to provide comprehensive, competent intervention to adults with visual impairment from age-related eye diseases and brain injury. The program is designed for occupational therapists already working in low vision rehabilitation; those interested in starting low vision rehabilitation programs; and those just interested in expanding their practice skills. The program's flexible web-based distance format allows occupational therapists across the United States and other English speaking countries to obtain these skills while working full time.

### Credentials Conferred

The Graduate Certificate in Low Vision Rehabilitation is awarded by the University of Alabama at Birmingham.

### Length of Study

The certificate requires 5 semesters to complete; students take 1 course per semester.

### Program Entrance Date

Fall semester (begins in August)

### Requirements for Admission

Degree in occupational therapy from an accredited university program.

### Essential Requirements

After acceptance and prior to enrollment into online programs, students must certify their ability to complete the essential tasks, with or without reasonable accommodation, associated with performing as an occupational therapy student. Reasonable accommodation refers to ways in which the University can assist students with disabilities to accomplish these tasks (for example, providing extra time to complete an examination). Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that the Department of Occupational Therapy will work with students with disabilities to determine whether there are ways to assist the student with completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable accommodation contacts Disability Support Services (205) 934-4205 or (205) 934-4248 (TDD), provides appropriate and current documentation substantiating the claimed disability, meet the requirements of a disability as described in the ADA, and identify the needed accommodation. Reasonable accommodation in classroom and in practice settings cannot be provided without the formal request and the required documentation of the ADA defined disability. (Visit <http://www.uab.edu/students/disability>).

### Essential Tasks

- Students must meet class standards for course completion throughout the curriculum.
- Students must be able to read, write, speak, and understand English at a level consistent with successful course completion and development of positive client-therapist relationships.
- Students must complete readings, assignments, and other activities.
- Students must gather decision-making pieces of information during client assessment activities.

- Students must perform evaluation and intervention activities by direct performance keys.
- Students must apply critical thinking processes to their work in the courses.
- Students must have interpersonal skills as needed for productive discussion, respectful interaction with classmates and faculty.
- Students must demonstrate appropriate health status prior to enrollment with annual updates on some items. Requirements found at [www.uab.edu/studenthealth](http://www.uab.edu/studenthealth).
- Students must follow standards and policies specified in the Department of Occupational Therapy Student Handbook, and the University of Alabama at Birmingham *Directions* Handbook.
- Students must adhere to all policies outlined in the Department of Occupational Therapy Student Handbook which is posted online at [www.uab.edu/shp/ot/contact-us/student-resources](http://www.uab.edu/shp/ot/contact-us/student-resources).

## Application Deadline and Procedure

See Occupational Therapy Low Vision Rehabilitation Admissions Checklist on the Overview page.

## International Students:

See Occupational Therapy Low Vision Rehabilitation Admissions Checklist, in addition to the following items:

- A transcript evaluation from World Education Services ([www.wes.org](http://www.wes.org)) or Educational Credential Evaluators ([www.ece.org](http://www.ece.org)) may be required.
- Students from countries where English is not the official and primary language may be required to take and receive an acceptable score on the TOEFL, or the IELTS.
- Submit official TOEFL test score (Institution code: 1856) or official IELTS score (provide the Graduate School's mailing address to the testing company/center)

## Typical Program (Course requirements are listed in semester credit hours)

The curriculum is designed with the working occupational therapist in mind. Coursework emphasizes practical application to the clinic. Projects are designed to reinforce learning of application to practice. Materials for completion of the courses can be obtained through the internet and required texts. The student must have consistent access to the internet. A high-speed connection (DSL, cable, satellite) is strongly recommended.

## Certificate

On completion of the required coursework the student will be awarded a Graduate Certificate in Low Vision Rehabilitation by the University of Alabama at Birmingham and the student's name will appear in the commencement bulletin. A transcript of the coursework taken for the certificate will be available.

The curriculum for the certificate is offered online as web-based distance education for practitioners. Students accepted into the program begin the curriculum in August and complete one course per semester. Because one course builds on another, students must take the courses in sequence. The final course requires that the student come to the UAB campus for a 2-day on campus intensive where they will work in small groups with instructors to demonstrate assessment and intervention skills. This is the only time the student is required to come to the UAB campus during the entire curriculum. Based on these requirements, course work for completion of the certificate will require 5 semesters.

## LOW VISION REHABILITATION CURRICULUM

The courses must be completed sequentially in the order listed below.

### Typical OT Curriculum Course Sequence

Requirements		Hours
<b>Fall Cohort</b>		
OT 677	Foundations in Low Vision Rehabilitation I (1st Fall semester)	3
OT 679	Foundations in Low Vision Rehabilitation II (1st Spring semester)	3
1st Summer semester Open		
OT 690	Foundations in Low Vision Rehabilitation III (2nd Fall semester)	3
OT 689	Foundations in Treatment of Visual Impairment from Brain Injury (2nd Spring semester)	3
OT 691	Foundations in Low Vision Rehabilitation IV (2nd Summer semester)	3
<b>Total Credits 15 credits</b>		

For further information contact:

Program Coordinator  
Occupational Therapy Low Vision Rehabilitation Certificate Program  
UAB School of Health Professions  
SHPB 355  
1720 2nd Avenue South  
Birmingham, AL 35294-1212  
Telephone 205-934-7321  
E-mail [lvrcert@uab.edu](mailto:lvrcert@uab.edu)  
Web <http://www.uab.edu/shp/ot/low-vision-rehabilitation>

## Program Information

The Department of Occupational Therapy at the University of Alabama at Birmingham offers an entry level Master of Science (MS) degree in occupational therapy for individuals who hold a baccalaureate degree in a field other than occupational therapy. For individuals without a baccalaureate degree, this curriculum is also offered in conjunction with the undergraduate Health Care Management program as a 3:2 HCM/OT Pathway ([www.uab.edu/shp/ot/32-fast-ot](http://www.uab.edu/shp/ot/32-fast-ot)).

## M.S. in Occupational Therapy

The MS in Occupational Therapy entry-level, or professional program, is a full-time day program.

## Accreditation

The program is fully accredited by the Accreditation Council for Occupational Therapy Education (ACOTE)<sup>®</sup> of the American Occupational Therapy Association (AOTA)<sup>®</sup>, located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814-3449; telephone: (301)652-6611 ext 2914.

## Credentials Conferred

The Master of Science degree is awarded by the University of Alabama at Birmingham.

## Professional Certification

Graduates of the program are eligible to sit for the national occupational therapist certification examination administered by the National Board for Certification in Occupational Therapy (NBCOT)<sup>®</sup>; website: [www.nbcot.org](http://www.nbcot.org). After successful completion of the exam, the individual will be an Occupational Therapist, Registered (OTR). Most states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination.

Applicants should be aware that fieldwork placement sites, professional licensing agencies and prospective employers frequently require criminal history disclosures and background checks, although convictions do not necessarily disqualify someone for licensure or employment. Applicants with criminal convictions should recognize that such convictions may impede eventual licensure or employment and that the University of Alabama at Birmingham cannot predict the future decisions of fieldwork sites, licensing agencies, or employers. An individual who is considering, or who has entered, an occupational therapy educational program can have his/her background reviewed by requesting an Early Determination Review from NBCOT at <http://www.nbcot.org/early-determination-character-review>.

## Length of Study

Entry level program: Minimum of 7 semesters (2 1/2 years) as a full-time student.

## Program Entrance Date

Fall semester of each year a new class is enrolled.

## Application Deadline

This program participates in the Occupational Therapy Centralized Application Service (OTCAS). Please consult [www.otcas.org](http://www.otcas.org) for more information regarding specific OTCAS application requirements, procedures, and fees. Applicants should send all application materials directly to OTCAS. OTCAS will verify the application information and send completed applications to the program.

Contact Information for OTCAS:

Web: <https://portal.otcas.org/> Phone: (617) 612-2860 -- Monday through Friday 9:00 -- 5:00 EST Email: [otcasinfo@otcas.org](mailto:otcasinfo@otcas.org)

## International Students

See Occupational Therapy Entry Level Admissions Checklist on the Overview page, in addition to these items:

- Complete and submit UAB Graduate School International application;
- Request one (1) official transcript to be mailed by the issuing institution to the UAB Graduate School; a transcript evaluation from World Education Services ([www.wes.org](http://www.wes.org)) or Educational Credential Evaluators ([www.ece.org](http://www.ece.org)) is required;
- Take and receive an acceptable score on the TOEFL or the IELTS, if the student is from a country where English is not the official and primary language;
- Submit official TOEFL test score: Institution code: 1856 or official IELTS score (provide the Graduate School's mailing address to the testing company/center; and
- Mail Financial Affidavit of Support.

## Requirements for Admission

The applicant must hold a baccalaureate degree from an accredited college or university in a field other than occupational therapy. Acceptance will be based on the student's academic ability, aptitude for a career as an occupational therapist, and an interview. The candidate is expected to satisfy the following requirements:

- Complete the OTCAS application.
- Hold a baccalaureate degree in a discipline other than occupational therapy from an accredited college or university; or receive a baccalaureate degree by June 1st of the admission year;
- Take the GRE, or report scores of the GRE taken within the last 5 years;
- Completion of prerequisite coursework by June 1st of the admission year.
- Have an overall minimum GPA of 3.0 as calculated by OTCAS or a minimum GPA of 3.0 in the last 60 hours of coursework;
- Have an overall minimum GPA of 3.0 or better for all prerequisite courses.
- If invited, participate in an interview with faculty of the Department of Occupational Therapy. The interview is scheduled once all applications are reviewed. Interviews are typically held in January and February.

## Procedures Following Acceptance

Once accepted, students will be allowed to enroll into the program in the desired entry year only if the following requirements are met:

- Medical clearance requirements met as posted at [www.uab.edu/studenthealth/](http://www.uab.edu/studenthealth/);
- Application to and acceptance by the Graduate School (online) ([www.uab.edu/graduate/online-forms](http://www.uab.edu/graduate/online-forms)) including the fee;
- Signed Letter of Intent received by the Department of Occupational Therapy; with,
- \$300 nonrefundable deposit to reserve a seat in the program (deposit will be applied to tuition).
- Complete a criminal background check and drug screen at program admission and again prior to fieldwork placement as required by school policy.

## Essential Requirements

Prior to enrollment, students must certify their ability to complete the essential tasks, with or without reasonable accommodation, associated with performing as an occupational therapy student. Reasonable accommodation refers to ways in which the University can assist students with disabilities to accomplish these tasks (for example, providing extra time to complete an examination or enhancing the sound system in a classroom). Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that the Department of Occupational Therapy will work with students with disabilities to determine whether there are ways to assist the student with completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable accommodation contacts Disability Support Services (205) 934-4205 or (205) 934-4248 (TDD) or visit 9th Avenue Office Bldg. 1701 9th Ave., provides appropriate and current documentation substantiating the claimed disability, meets the requirements of a disability as described in the ADA, and identifies the needed accommodation. Reasonable

accommodation in classroom and in practice settings cannot be provided without the formal request and the required documentation of the ADA defined disability. (Visit <http://www.uab.edu/dss> )

## Essential Tasks and Skills

The student must possess sufficient cognitive skills to:

- Acquire, process, retain and apply knowledge through a variety of instructional methods such as: written materials (i.e. texts, journals, documentation and other written sources), oral delivery, visual demonstrations, laboratory experiences, clinical experiences and independent learning.
- Complete reading assignments, search and analyze professional literature, and apply information gained to guide practice.
- Process (measure, calculate, analyze, synthesize and evaluate) large amounts of complex information; apply theoretical concepts to practice activities and perform clinical problem-solving in a logical and timely manner.
- Perceive and understand three-dimensional relationships and spatial relationships necessary for education and practice related tasks such a moving in a variety of environments, designing treatment equipment, and fabricating splints.
- Maintain attention for 2-4 hours; tolerate days when classes or fieldwork may last 8-10 hours.
- Take and pass test/quizzes in a variety of formats.
- Complete written assignments and produce written documentation in standard and organized English.
- Apply knowledge and judgment required to demonstrate ethical reasoning and behavior.
- Apply safety knowledge and judgment to a variety of situations.
- Comply with University, Program, and fieldwork site rules and regulations.
- Demonstrate problem-solving skills and judgment necessary to modify evaluation or intervention methods when necessary to address the specific needs of individuals (behavioral, cultural, etc.), in order to maximize client performance.
- Apply clinical reasoning and judgment necessary for interpretation of evaluation data and development of treatment plans.
- Identify and select occupations that are goal directed and motivate and challenge clients.
- Demonstrate judgment necessary to establish priorities and develop and use strategies.

The student must possess sufficient interpersonal skills, communication skills, and affective learning skills to:

- Demonstrate positive sufficient interpersonal skills including, but not limited to, cooperation, flexibility, tact, empathy, and confidence.
- Collaborate with classmates, clients, family members, significant others, and team members.
- Function successfully in supervisory, and instructor-student relationships; change and adjust behavior and performance in the classroom, laboratory, or clinic on the basis of instructor feedback.
- Participate equitably in cooperative group learning activities; actively participate in class discussions and as a member of a team.
- Sustain the mental and emotional rigors of a demanding educational program in occupational therapy that includes academic and clinical components that occur within set time constraints and often concurrently.

- Orally present information to groups of people.
- Communicate in the English language effectively and clearly in oral and written forms, using proper spelling, punctuation, and grammar to explain procedures and teach skills.
- Use language appropriate to the recipient, with faculty, peers, clients, and other health professionals from different social and cultural backgrounds; use communication skills needed to practice safely.
- Obtain information from clients, peers, faculty, supervisors, and other professionals.
- Use therapeutic communication skills such as attending and active listening during therapeutic interactions; and motivating and facilitating client behaviors in order to maximize client performance.
- Communicate effectively both verbally and non-verbally; elicit and describe factual information and perceive information derived from verbal and non-verbal communication and social cues.
- Be appropriately assertive as required to speak in class, initiate and guide the therapy process, establish limits as needed for the safety of self and clients and establish professional identity within complex systems.
- Utilize the computer for communication and class assignments.
- Observe persons and scenarios and elicit relevant information for use in assessment and intervention.
- Plan, guide and implement both individual and group interventions.

The student must possess sufficient professional behavior to:

- Demonstrate respect for diversity, including but not limited to, socio-cultural, socioeconomic, spiritual, and lifestyle choices.
- Function successfully in supervisory and instructor-student relationships; change and adjust behavior and performance in the classroom, laboratory, or clinic on the basis of instructor feedback.
- Exhibit professional demeanor including appropriate language and dress, acceptance of responsibility for conduct.
- Demonstrate organizational and time management skills and ability to prioritize activities effectively as needed to attend class and fulfill class requirements.
- Exhibit flexibility and adapt to changing environments and expectations.
- Cope with stresses encountered in the intensive educational process as well as clinical practice environments.
- Demonstrate consistent work behaviors including initiative, preparedness, dependability, punctual attendance and work site maintenance.
- Tolerate working in environments where there is exposure to disability, illness, pain, and death.
- Maintain general good health and self-care in order not to jeopardize the health and safety of self and others in the academic and clinical settings.
- Maintain ethical standards including honesty, integrity, and confidentiality, at all times.
- Produce the required volume of work in the expected time frame.

The student must possess sufficient physical and sensory skills to:

- Tolerate sitting up to 2 hours at a time, over an 8-10 hour period.
- Tolerate periods of physical activity up to 8-10 hours per day.
- Demonstrate coordination, equilibrium, and sensory functioning required to manipulate parts of, or whole bodies of, simulated and real clients for purposes of evaluation and treatment.

- Demonstrate mobility and ability to move within environments adequately to access and maneuver within locations and destinations including classroom, lab, and clinical settings.
- Demonstrate lifting ability sufficient to maneuver an individual's body parts effectively to perform evaluation and treatment techniques including, but not limited to, transferring another person into and out of a wheelchair, to and from the commode or bed, etc.
- Demonstrate sufficient postural control, neuromuscular control, eye/hand coordination, and integrated function of the senses of vision, hearing, tactile sense, vestibular (movement sense) and proprioception (sense of muscles and joints) to manipulate and use common occupational therapy equipment, devices, materials, and supplies, and demonstrate competency in the use of these objects within assessment and treatment procedures commonly used in occupational therapy practice.
- Demonstrate motor skill capacities with sufficient levels of strength, endurance and fine and gross motor coordination to safely, accurately, and effectively engage in a wide variety of therapeutic techniques, activities and occupations used in the occupational therapy assessment and intervention process; these capacities would include ability to lift and move objects, adequate manual dexterity, arm and hand function needed to use tools and perform other manipulative activities, use of limbs and trunk in bending, twisting, squatting, kneeling, reaching, pushing, pulling, holding, extending, and rotation.
- Manipulate or guide another person's body in transfers, ambulation, positioning and assisted or facilitated trunk, head, and limb movements.
- Manipulate bolsters, pillows, plinths, mats, assistive/adaptive devices, and other supports or chairs to aid in positioning, moving, or treating a patient/client effectively.
- Legibly record/document evaluations, patient care notes, and referrals, etc., in standard medical charts in clinical settings in a timely manner and consistent with the acceptable norms of clinical settings.
- Demonstrate or complete activities or tests with adequate degree of fine motor dexterity.
- Tolerate physical contact with others; tolerate manipulation of his/her own body by peers or instructors for instructional purposes.
- Demonstrate a sufficiently high degree of coordination of motor skills and vigilance to respond to emergency situations quickly and appropriately, including performance of CPR.
- Travel to various community and fieldwork sites for experiential learning, clinical opportunities, and fieldwork.

**Program Prerequisites - UAB Equivalents\***

(Course requirements are listed in semester credit hours)

Completion of prerequisite coursework within the last 8 years with a grade of "B" or better. No more than two prerequisites may be incomplete at the time of application; however, all courses must be completed by June 1st of the entrance year. Depending on the number and type of outstanding prerequisite courses, you may be accepted into the program early with certain conditions such as a requirement to achieve a grade of B or better in a course.

Have a minimum 3.0 (A=4.0) grade point average (GPA) overall, in the required prerequisite work, and last 60 semester hours.

Requirements	Hours
<b>Prerequisite Courses Required</b>	
Intro to Professional Writing (UAB Equivalent EH 315)	3
Biology with Lab (UAB Equivalent BY 123+L)	4
Human Anatomy with lab (UAB Equivalent BY 115+L)	4
Human Physiology with lab (UAB Equivalent BY 116+L)	4
Physics (UAB Equivalent PH 201) or Kinesiology (UAB Equivalent KIN 307)	3
Abnormal Psychology (UAB Equivalent PY 218)	3
Developmental or Lifespan Psychology (must be birth through death) (UAB Equivalent PY 212)	3
Statistics Elective (PY 214, PY 216, MA 180, EPR 214 or HCM 360)	3
Sociology Elective (UAB Equivalent SOC 101) or Anthropology Elective (UAB Equivalent ANTH 101)	3

UAB Entry-level Occupational Therapy Program requires taking the GRE within the last 5 years.

**Typical Program**

(Course requirements are listed in semester credit hours)

First Year	
First Term	Hours
OT 595	1
OT 606	3
OT 607	3
OT 620	4
OT 667	3
OT 600	2
<b>16</b>	

**Total credit hours: 16**

First Year	
Second Term	Hours
OT 596	1
OT 605	3
OT 609	3
OT 622	3
OT 623	3
OT 630	1
OT 631	3
<b>17</b>	

**Total credit hours: 17**

First Year	
Summer Term	Hours
OT 597	1
OT 610	3
OT 624	4
OT 632	1
OT 662	4
OT 673	3
OT 698	2
<b>18</b>	

**Total credit hours: 18**

**Second Year**

First Term	Hours
OT 598	1
OT 625	4
OT 633	1
OT 661	3
OT 668	4
OT 670	3
OT 698	2
<hr/>	
	<b>18</b>

**Total credit hours: 18****Second Year**

Second Term	Hours
OT 599	2
OT 634	2
OT 653	3
OT 665	4-5
OT 674	3
OT 698	2
HRP 650	2
<hr/>	
	<b>18-19</b>

**Total credit hours: 18-19****Second Year**

Summer Term	Hours
OT 685	10
<hr/>	
	<b>10</b>

**Total credit hours: 10****Third Year**

First Term	Hours
OT 686	10
<hr/>	
	<b>10</b>

**Total credit hours: 10**

A minimum total of six credit hours Master's Level Non-Thesis Research must be completed to meet graduation requirements.

For further information contact:

UAB, Department of Occupational Therapy  
 Recruitment and Admissions Coordinator  
 SHPB 352  
 1716 9th Avenue South  
 Birmingham, AL 35294-1212  
 Telephone 205-934-5420  
 E-mail [uabOT@uab.edu](mailto:uabOT@uab.edu) (msot@uab.edu)  
 Web <http://www.uab.edu/shp/ot/>

## Clinical Doctorate in Occupational Therapy

The clinical doctorate in occupational therapy (OTD) program is designed to provide advanced educational and clinical opportunities for occupational therapy (OT) practitioners to develop knowledge and skills to improve health care for persons with functional limitations that influence their occupational performance or everyday living skills. The program aims to prepare occupational therapists to improve the health, well-being, and quality of life for all people, populations,

and communities. The program's flexible web-based format allows occupational therapists across the United States and in other English speaking countries to obtain these advanced practice skills while working full time.

## Credentials Conferred

The Clinical Doctorate in Occupational Therapy (OTD) degree is awarded by the University of Alabama at Birmingham.

## Length of Study

The program requires variable semesters to complete; students taking two courses per semester should finish in 3 years. Students taking only one course per semester or a mix of credit hours across semesters will take longer.

## Requirements for Admission

Admission is open to therapists with current master's or bachelor's degrees in occupational therapy conferred from an accredited occupational therapy program who are currently employed or have a minimum of five years' experience as an occupational therapist. Students who are second year entry-level master's students at the University of Alabama at Birmingham may apply as well.

Requirement	Fulfilled By:
Entry Term:	Fall
Deadline for ALL Application Materials to be in the Graduate School Office:	August 1
Entrance Tests:	For international applicants from non-English speaking countries, scores for the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS)

**All applicants must meet the general requirements of the UAB Graduate School as well as the OTD admission requirements listed on the Admissions Checklist.**

<https://www.uab.edu/graduate/admissionsrequirements>

### International Students:

See Clinical Doctorate in Occupational Therapy Admissions Checklist, in addition to the following items:

- A transcript evaluation from World Education Services ([www.wes.org](http://www.wes.org)) or Educational Credential Evaluators ([www.ece.org](http://www.ece.org)) may be required.
- Students from countries where English is not the official and primary language may be required to take the TOEFL, or the IELTS. A minimum score of 550 on the paper text, 213 on the computer version, or 80 on the internet-based test of the TOEFL or a minimum score of 6.0 – 6.5 on the IELTS test is recommended.

## Essential Requirements

After acceptance, and prior to enrollment into online programs, students must certify their ability to complete the essential tasks, with or without reasonable accommodation, associated with performing as an occupational therapy student. Reasonable accommodation refers to ways in which the University can assist students with disabilities to

accomplish these tasks (for example, providing extra time to complete an examination). Reasonable accommodation does not mean that students with disabilities will be exempt from certain tasks; it does mean that the Department of Occupational Therapy will work with students with disabilities to determine whether there are ways to assist the student with completion of the required tasks.

After enrollment, a student with a disability who wishes reasonable accommodation must contact Disability Support Services at (205) 934-4205 or (205) 934-4248 (TDD), provide appropriate and current documentation substantiating the claimed disability, meet the requirements of a disability as described in the ADA, and identify the needed accommodation. Reasonable accommodation in classroom and in practice settings cannot be provided without the formal request and the required documentation of the ADA defined disability. (Visit <http://www.uab.edu/dss>).

## Essential Tasks

- Students must be competent in computer skills to include use of the Microsoft Office Suite (Word, PowerPoint, Excel, etc.), email correspondence, web search skills.
- The student must have adequate technology resources and reliable access to the Internet. Recommended technology resources are described here. Students must meet class standards for course completion throughout the curriculum.
- Students must be able to read, write, speak, and understand English at a level consistent with successful course completion and development of positive client-therapist relationships.
- Students must complete readings, assignments, and other activities.
- Students must gather decision-making pieces of information during client assessment activities.
- Students must perform evaluation and intervention activities by direct performance keys.
- Students must apply critical thinking processes to their work in the courses.
- Students must have interpersonal skills as needed for productive discussion, and respectful interaction with classmates and faculty.
- Students must demonstrate appropriate health status prior to enrollment with annual updates on some items. Requirements found at [www.uab.edu/studenthealth](http://www.uab.edu/studenthealth).
- Students must follow standards and policies specified in the Department of Occupational Therapy Student Handbook, and the University of Alabama at Birmingham *Directions* Handbook.
- Students must adhere to all policies outlined in the Department of Occupational Therapy Student Handbook, which is posted online at <http://www.uab.edu/shp/ot/admissions>.

## Degree

On completion of the required coursework the student will be awarded an OTD by the University of Alabama at Birmingham and the student's name will appear in the commencement bulletin. A transcript of the coursework taken for the degree will be available through the University Registrar's Office.

The curriculum for the degree is offered online via web-based learning management system for students in the program. Students accepted into the program begin the curriculum in August and complete one or more courses per semester. The clinical doctorate requires variable semesters to complete; students taking 2 courses per semester should finish in 3 years. Students taking only 1 course per semester or a mix of credit hours across semesters will take longer.

## Typical Program

The curriculum is designed with the working occupational therapist in mind. Coursework emphasizes practical application to the OT clinic environment. Projects are designed to reinforce classroom learning for application to practice. Materials for completion of the courses can be obtained through the Internet, materials provided, and required texts.

Students are required to complete 25 credit hours of core and 15 credit hours of elective coursework.

Requirements		Hours
Core Course Requirements		
OT 701	Theoretical Foundations for Occupational Therapy Practice	3
OT 703	Advocacy and Healthcare Policy in Population Health	3
OT 704	Research Design for Occupational Therapy Practice	3
OT 705	Evidenced-based Occupational Therapy Practice Design and Application	3
OT 706	Management for Occupational Therapy Practice	3
OT 707	Occupational Therapists as Educators	2
OT 798	Occupational Therapy Capstone Experience/Non-Thesis Project <small>Minimum of 6 credit hours after all coursework had been completed</small>	6
<b>Total Hours</b>		<b>23</b>

Requirements		Hours
Elective Course Requirements for students completing the Low Vision Rehabilitation track		
OT 677	Foundations in Low Vision Rehabilitation I	3
OT 679	Foundations in Low Vision Rehabilitation II	3
OT 689	Foundations in Treatment of Visual Impairment from Brain Injury	3
OT 690	Foundations in Low Vision Rehabilitation III	3
OT 691	Foundations in Low Vision Rehabilitation IV	3
<b>Total Hours</b>		<b>15</b>

Requirements		Hours
Elective Course Requirements for students completing the General OTD track (select 15 hours)		
OT 710	Introduction to Occupational Science	3
OT 711	Adaptation and Disability in Occupational Therapy Practice	3
OT 712	Environment and Context in Occupational Therapy Practice	3
OT 713	Professional Writing	3
OT 714	Program Evaluation in Occupational Therapy	3
AH 777	Mixed Methods Research I: Introduction	3
AH 778	Mixed Methods Research II	3
AH 779	Mixed Methods Applications in Community-Based Action Research	3
AH 784	Qualitative Research: A Grounded Theory Approach	3
AH 785	Qualitative Research: Analysis and Interpretation	3

AH 786	Qualitative Research: A Case Study and Ethnographic Approaches	3
AH 787	Qualitative Research: A Phenomenological Approach	3

For further information contact:

UAB, Department of Occupational Therapy  
 Program Coordinator, Occupational Therapy Clinical Doctorate Program  
 SHPB 3381716 9th Avenue South  
 Birmingham, AL 35294-1212  
 Telephone 205-934-5420  
 E-mail [OTD@uab.edu](mailto:OTD@uab.edu)  
 Web <http://www.uab.edu/shp/otd>

## Physical Therapy

Degree Offered:	D.P.T.
Director (D.P.T.):	Dr. David Morris
Phone:	(205) 934-3566
Website:	<a href="http://www.uab.edu/pt">www.uab.edu/pt</a>

### Program Information

The Doctor of Physical Therapy program is a course of study for students who hold baccalaureate degrees in fields of study other than Physical Therapy. Completion of the program after nine semesters leads to a Doctor of Physical Therapy (DPT) degree and serves as initial preparation for practice as a physical therapist.

### Doctor of Physical Therapy (D.P.T.)

Physical therapists provide services to patient/clients who have body structure and function impairments, activity limitations, participation restrictions, or changes in physical function and health status resulting from injury, disease, and other causes. Physical therapists also address risk and provide prevention services and promote health, wellness, and fitness. Physical therapists interact and practice in collaboration with a variety of professionals. Physical therapists also function in consultative, education, administrative and supervisory roles in many different types of practice, research, and education settings.

**Accreditation:** The program is accredited by the Commission on Accreditation in Physical Therapy Education. ([www.capteonline.org/home.aspx](http://www.capteonline.org/home.aspx))

**Credentials Conferred:** The Doctor of Physical Therapy degree is awarded by the University of Alabama at Birmingham.

**License :** Graduates are eligible for the physical therapist licensure examination. Note that state law regulates the practice of Physical Therapy; contact a specific state's Board of Licensure for Physical Therapy to obtain information on that state's eligibility requirements. <http://www.fsbpt.org/LicensingAuthorities/index.asp>

**Length of Study:** Nine semesters.

**Program Entrance Date:** Spring semester.

**Application Procedure:** This program participates in the Physical Therapist Centralized Application Service (PTCAS). Please consult [www.ptcas.org](http://www.ptcas.org) for more information regarding specific PTCAS application requirements, procedures and fees. The PTCAS application needs to be completed by the PTCAS deadline. Applicants should send all application materials including GRE scores (use code 7801)

directly to PTCAS. PTCAS will verify the application information and send completed applications to the program.

**Requirements for Admission:** The applicant must hold a baccalaureate degree from an accredited college or university within the United States in a field other than physical therapy. Acceptance will be based on the student's academic ability and aptitude for a career as a physical therapist. The candidate is expected to satisfy the following requirements:

- Complete the PTCAS application based on the PTCAS deadline.
- 75% of prerequisite courses must be completed by the end of the fall semester of the year of application.
- Complete at least 40 hours of documented observation of physical therapy. Various settings are recommended. Documentation should be submitted to PTCAS.
- Submit three letters of recommendation to PTCAS.
  - Letters 1 and 2: Written by a physical therapist who has interacted with the applicant for at least 20 hours in a clinical setting.
  - Letter 3: Written by a professor with whom the applicant had significant interaction in an academic setting. Complete the GRE and have scores sent to PTCAS (code 7801).
- Have a minimum 3.0 (A=4.0) overall, prerequisites, and last 60 semester hours grade point averages. For prerequisite courses, no grade lower than a C will be accepted.
- If invited, complete a personal interview with the Department of Physical Therapy.

Students who are **accepted** into the UAB Doctor of Physical Therapy program must:

- Complete the UAB Graduate School application to include the Graduate School fee.
- Complete the UAB medical history questionnaire and physical.
- Provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.
- Send all official transcripts to the UAB Graduate School.
- Complete a criminal background check and drug screen before program matriculation and as specified by the Department of Physical Therapy.

State law regulates the practice of Physical Therapy. Therefore, applicants are encouraged to review the nonacademic eligibility requirements for licensure to practice physical therapy prior to application to the program. These may be obtained from each individual state's Board of Licensure for Physical Therapy. <http://fsbpt.org/LicensingAuthorities/index.asp>

### Program Prerequisites—UAB Equivalents

(Course requirements are listed in semester credit hours)

#### Arts and Humanities

English Composition (6)

#### Social and Behavioral Sciences

Psychology (6)

#### Natural Sciences and Mathematics

Biology (12)

Human/Mammalian Physiology (4)

Chemistry for Science Majors (8)

Physics for Science Majors (8)  
 Pre-Calculus With Trigonometry (3)  
 Psychology (6)  
 Statistics (3)  
 Medical Terminology (1-3)

*It is strongly recommended that applicants take the following courses: practical reasoning or logic course, biomechanics or kinesiology and upper level biology (physiology).*

**Essential Requirements:** Fundamental tasks, behaviors, and abilities necessary to successfully complete the academic and clinical/residency requirements of the program and to satisfy licensure/certification requirements, if any, have been outlined and are available upon request from the academic program office. Students requesting disability accommodations must do so by filing a disability accommodation request with the UAB Office of Disability Support Services.

**Typical Program**

(Course requirements are listed in semester credit hours)

First Year	
Second Term	Hours
PT 700	3
PT 702	4
PT 713	3
PT 730	3
PT 760	2
<b>15</b>	

**Total credit hours: 15**

First Year	
Summer Term	Hours
PT 701	2
PT 711	2
PT 712	3
PT 720	3
PT 731	3
PT 790	2
<b>15</b>	

**Total credit hours: 15**

First Year	
First Term	Hours
PT 704	3
PT 706	3
PT 714	3
PT 715	3
PT 721	3
<b>15</b>	

**Total credit hours: 15**

Second Year	
Second Term	Hours
PT 705	3
PT 707	3
PT 740	5
PT 761	3

PT 798	1
<b>15</b>	

**Total credit hours: 15**

Second Year	
Summer Term	Hours
PT 743	4
PT 744	3
PT 770	4
PT 791	2
PT 798	1
<b>14</b>	

**Total credit hours: 14**

Second Year	
First Term	Hours
PT 741	5
PT 746	5
PT 762	3
PT 798	1
<b>14</b>	

**Total credit hours: 14**

Third Year	
Second Term	Hours
PT 763	2
PT 764	2
PT 770	9
<b>13</b>	

**Total credit hours: 13**

Third Year	
Summer Term	Hours
PT 770	9
<b>9</b>	

**Total credit hours: 9**

Total Credit Hours for Program: 119

**Additional Information**

For detailed information, contact Betsy Moore, Physical Therapy Department, School of Health Professions, SHPB, Room 333, 1716 9th Avenue South (mailing address: SHPB 333, 1720 2nd Avenue South), Birmingham, Alabama 35294-1212.

Telephone 205-934-4363

E-mail [becol@uab.edu](mailto:becol@uab.edu)

**Doctor of Physical Therapy**

Requirements	Hours
PT 700 Human Gross Anatomy	3
PT 702 Functional Anatomy	4
PT 713 Physical Therapy Intervention I	3
PT 730 Essentials of Human Physiology	3
PT 760 PT Professional Practice I	2
PT 701 Human Gross Anatomy II	2
PT 711 PT Examination I	2
PT 712 Physical Therapy Examination II	3

PT 720	Pathology and Pharmacology for Movement Disorders I	3
PT 731	Human Performance Physiology	3
PT 790	Scientific Inquiry I	2
PT 704	Analysis of Human Movement	3
PT 706	Neuroscience I	3
PT 714	Physical Therapy Intervention II	3
PT 715	Physical Therapy Intervention III	3
PT 721	Pathology and Pharmacology for Movement Disorders II	3
PT 705	Human Movement Dysfunction	3
PT 707	Neuroscience II	3
PT 740	PT Management of Musculoskeletal Dysfunction I	5
PT 761	PT Professional Practice II	3
PT 798	Doctoral Level Non-Thesis Research	1
PT 743	PT Management of Cardiopulmonary Dysfunction	4
PT 744	PT Management of Neuromuscular Dysfunction I	3
PT 770	Clinical Education	4
PT 791	Scientific Inquiry II	2
PT 798	Doctoral Level Non-Thesis Research	1
PT 741	PT Management of Musculoskeletal Dysfunction II	5
PT 746	PT Management of Neuromuscular Dysfunction II	5
PT 762	PT Professional Practice III	3
PT 798	Doctoral Level Non-Thesis Research	1
PT 763	PT Professional Practice IV	2
PT 764	Professional Practice V - Capstone Experience	2
PT 770	Clinical Education	9
PT 770	Clinical Education	9
PT 770	Clinical Education	9

**Total Hours** 119

## School of Medicine

At UAB, we're training the next generation of physicians and physician-scientists, answering basic scientific questions that lead to medical innovations and bringing the best medical care to bear for our patients.

UAB is an integral part of Birmingham and the region, and Birmingham is integral to UAB. The Birmingham campus is within walking distance of some of the best parks, entertainment and dining in the region. Our regional campuses—in Huntsville, Montgomery and Tuscaloosa—expand our academic reach and responsibilities, helping educate physicians in rural and underserved areas of the state.

The School of Medicine has approximately 750 students, 900 residents and 1,300 full-time faculty in 26 academic departments. We are the home of The Kirklin Clinic, a multi-disciplinary medical home; University Hospital, one of the largest academic hospitals in the country; and our faculty serve the Children's of Alabama hospital.

## Interdisciplinary Academic Programs

UAB offers a **NIH-funded Medical Scientist Training Program (MSTP)**, a combined MD/PhD program designed to prepare students for careers that combine laboratory investigation of disease mechanisms with the practice and teaching of clinical medicine in an academic setting. The Gerontology Education Certificate Program was established in 1980 through the cooperative efforts of the School of Social and Behavioral Sciences and the Center for Aging. Since that time, the program has expanded considerably and offers diverse academic opportunities.

Students have access to a number of faculty members from multiple disciplines who bring research and academic expertise to the study of aging and the aged.

## Gerontology

Certification Program Director:	Dr. Patricia L. Sawyer
Phone:	(205) 934-9261
E-mail:	psawyer@uab.edu
Website:	www.aging.uab.edu

## Program Information

The Gerontology Education Program was established in 1980 through the cooperative efforts of the School of Social and Behavioral Sciences and the Comprehensive Center for Healthy Aging. Since that time, the program has expanded considerably and offers diverse academic opportunities. Students have access to a number of faculty members from multiple disciplines who bring research and academic expertise to the study of aging and the aged.

The Gerontology Education Program offers multidisciplinary academic courses in gerontology leading to a graduate certificate. The study of gerontology at these levels is designed to provide people educated in various disciplines with the background needed to work in programs related to aging and the aged. The main goals are to provide students with a thorough background in existing theory and research in gerontology, and a supplement to their existing backgrounds and professional disciplines. We have designed the program to prepare students for leadership roles in this field of growing importance for both the private and public sectors. Our program's curriculum integrates research, theory, and practice. Its multidisciplinary approach reflects the urban mission of UAB.

The program office is located at the UAB Comprehensive Center for Healthy Aging. This academic program is administered by the Director of the Gerontology Education Program, who also serves as Chair of the Guidance Committee on Graduate and Undergraduate Education in Gerontology. This committee is made up of representatives of academic departments and schools throughout the UAB campus active in the study of aging and the aged. The multidisciplinary gerontology program is offered to all UAB students in good standing with the sponsorship and support of the School of Social and Behavioral Sciences, the School of Health Related Professions, and the Comprehensive Center for Healthy Aging.

## Student Admissions and Advisement

Although general advisement is handled through UAB student advising and parent departments, student advisement in gerontology is handled formally by the Director of the Gerontology Education Program. The director facilitates student advisement with other members of the Committee on Graduate and Undergraduate Education in Gerontology. A graduate specialty is offered to students who want a special emphasis in gerontology or geriatrics. The major objective of this specialization is to provide a strong academic background for professional careers in academic and aging-related settings. There are two avenues for undertaking the graduate gerontology certificate requirements. Students in good standing in the graduate school can specialize in gerontology through their primary department. Letters of application also are

accepted from students who have already completed requirements for an advanced or professional degree.

Students not currently enrolled in a graduate program at UAB may petition the university for non-degree admission status. Once accepted, the student can undertake a course of study to receive a graduate certificate upon completion of the required sequence of classes.

A careful review of proposed curriculum is recommended before the student enrolls for gerontology study. This will give students an opportunity to receive initial advisement while reviewing available study plans and course schedules.

## Requirements

Students must complete at least 15 credit hours of graduate-level work in gerontology or geriatrics, achieving a grade of B or better in each course. The curriculum consists of a required multidisciplinary course offered through the graduate school (GRD 600) or the completion of an aging course from each of the following departments: biology, psychology and sociology, and gerontology electives chosen from a roster of courses approved by the Committee on Graduate and Undergraduate Education in Gerontology, and a required research project or a relevant internship. To ensure a multidisciplinary perspective, courses must represent at least two departments.

## Additional Information

For detailed information, contact Dr. Patricia L. Sawyer, Director, UAB Gerontology Education Program, Center for Aging, Room 201-E1, 933 19th Street South, Birmingham, AL 35294-2041.  
Telephone 205-934-9261  
Fax 205-934-7354  
E-mail [psawyer@uab.edu](mailto:psawyer@uab.edu)

## Medical Scientist Training Program

Degree Offered:	M.D.-Ph.D.
Director:	Robin G. Lorenz, M.D., Ph.D.
Director Title:	Associate Dean of Physician Scientist Development
Phone:	(205) 934-4092 or 934-0676
E-mail:	<a href="mailto:rlorenz@uabmc.edu">rlorenz@uabmc.edu</a>
Website:	<a href="http://www.mstp.uab.edu">http://www.mstp.uab.edu</a>

## Overview

UAB's outstanding research and clinical training programs provide a unique opportunity for students interested in careers in basic biomedical research. As a designated NIH Medical Scientist Training Program (MSTP), students are admitted concurrently to the School of Medicine and the Graduate School in order to pursue both the M.D. degree and the Ph.D. degree. Ph.D. study in this program is available in the areas of biochemistry, structural, and stem cell biology; biomedical engineering; biostatistics; cancer biology; cell, molecular and developmental biology; epidemiology; genomics, and bioinformatics; health behavior; immunology; microbiology, neuroscience; nutrition sciences; pathobiology and molecular medicine; public health; sociology; and vision science.

Individuals admitted to this highly competitive program must have excellent undergraduate academic records and MCAT scores. In addition,

successful applicants must have demonstrated their commitment to a career pathway as an investigator with active participation in an original research project prior to admission. Fellowship support, including a stipend and payment of tuition and fees, is provided to successful applicants.

In general, M.D.-Ph.D. students will first complete the basic science phase of the medical curriculum and the first-year core curriculum of their chosen Ph.D. discipline simultaneously. The second phase of study will focus on mentor selection, research path, and completion of a dissertation research project leading to the Ph.D. degree. The final phase of the program is a series of clinical rotations and an abbreviated set of acting internships to complete the M.D. degree. Normally, the program involves about 8 years for completion, depending on the time required to complete the dissertation research.

Interested applicants must complete the standard AMCAS application to the UAB School of Medicine and a short supplementary application to the M.D.-Ph.D. program. More information is available at <http://www.uab.edu/medicine/mstp/admissions/admissions-process>

Students who have initiated study in the University of Alabama School of Medicine or the UAB Graduate School may also apply to the MD/PhD Program. Please contact the MSTP Director for further information.

## School of Nursing

Degree Offered:	M.S.N.
Director (M.S.N.):	Dr. Michele Talley
Phone:	(205) 934-6647
Email:	<a href="mailto:talley@m.uab.edu">talley@m.uab.edu</a>
Director (Nurse Anesthesia)	Dr. Susan P. McMullan
Phone	(205) 934-6587
Email	<a href="mailto:susanpmcm@uab.edu">susanpmcm@uab.edu</a>
Director (A.M.N.P.)	Mr. Michael Mosley
Phone	(205) 975-3465
Email	<a href="mailto:mmosley@uab.edu">mmosley@uab.edu</a>

Degree Offered:	D.N.P.
Director (D.N.P.):	Dr. Aimee Holland
Phone:	(205) 996-9824
Email:	<a href="mailto:aimeeholland@uab.edu">aimeeholland@uab.edu</a>

Degree Offered	Ph.D.
Director (Ph.D.):	Dr. Karen Heaton
Phone:	(205) 996-9467
Email:	<a href="mailto:khamp@uab.edu">khamp@uab.edu</a>

Degree Offered:	M.S.N.
Director (A.M.N.P.):	Mr. Michael Mosley
Phone:	(205) 975-3465
E-mail:	<a href="mailto:mmosley@uab.edu">mmosley@uab.edu</a>

## A.M.N.P. Program Description

The Accelerated Master's Entry to Nursing Pathway (AMNP) is an alternate pathway into the existing master's in nursing (MSN degree) for

applicants who have a bachelor's degree in a field other than nursing, who are not registered nurses, and who seek MSN preparation.

## A.M.N.P. Admission Requirements

Admission is based on the applicant's academic record and all application materials at the time of the application deadline. \*All grades (UAB and other colleges/universities) from previous college course work must be posted on applicant's UAB transcript by the application deadline. Courses *in progress* must be validated with a letter from the college or university students are attending.

- Applicants must have earned a minimum of a baccalaureate degree from a regionally accredited college/university prior to beginning classes.
- Upon receipt of ALL official transcripts, course work will be evaluated for advisement purposes regarding AMNP Foundational Courses.
- GPA- The minimum cumulative AND foundational GPA for all AMNP applicants is 3.0 at the time of application.
- Combined score of 297 on verbal and quantitative sections of the GRE; or score of 410 on the MAT; or score of 480 on the GMAT; Test scores submitted to UAB from the GRE, GMAT, or MAT must not be over 5 years old.
- International students must achieve a TOEFL examination score of at least 500;
- Three (3) letters of professional reference attesting to the applicant's potential for graduate study.
- A resume, outlining health care interest/experience, campus/community involvement, leadership and employment. Resumes should not be more than one page in length. Applicants are strongly encouraged to provide proof of work/volunteer experience in a healthcare setting as part of the application process. The healthcare work is to be documented by letters from a supervisor (on agency letterhead). Completion of a nursing skills course does not meet this criterion.
- Interviews- Due to the competitive nature, not all candidates that qualify for admission will be invited for interviews. Applicants will be notified within a month of the application submission deadline if they will be invited to participate in the interview round for continued consideration for admission. You will be given ample time to plan for a trip to campus if you are selected to be interviewed. Students will be notified within a month after the interviews of an admission decision.

## A.M.N.P. Degree Requirements

The Program is divided into two phases: (I) the Pre-licensure phase and (II) the Master of Science in Nursing, MSN, specialty phase. Students in the Phase I must be prepared to dedicate 40 hours or more a week to the coursework and clinical for this program. Students find that it is not feasible for them to work while completing Phase I of this program. This is not a distance accessible program. Students must successfully complete Phase I and Phase II of the program to earn a degree in nursing.

**Phase I:** The pre-licensure phase: 50 Credits, 1395 contact hours

Phase I consists of 12 months of full time study during which students complete the required courses and clinical experiences **equivalent** to a BSN degree in preparation to apply for licensure as a registered nurse. While this will be an intense learning experience, students will emerge with the knowledge and skills required to function as a registered nurse. Upon successful completion of Phase I requirements,

the University Registrar at UAB will send a certified letter to the Alabama Board of Nursing stating that students have successfully completed requirements equivalent to a BSN degree and are eligible to take the National Certification Licensure Exam for RNs (NCLEX-RN). Students who successfully complete the NCLEX-RN may subsequently apply for licensure and subsequently apply for employment as a Registered Nurse.

### Phase II: The Master of Science Specialty Phase:

Phase II consists of four or more semesters of part time study via distance education through the School of Nursing and clinical work as a registered nurse. The typical programs of study are listed on each of the specialty track's individual fact sheet. The spring admission into a master's specialty track will provide you with an estimate length to complete your Master of Science in Nursing degree. **Successful completion of Phase II leads to a Master of Science in Nursing degree (MSN) with eligibility to take a board certification exam in most specialties. Only after successful completion of a board certification exam may the RN use the corresponding designation as part of their professional title.**

## A.M.N.P. Program Goals

The MSN program of study is designed to prepare nurses who: synthesize research, theoretical formulations, and principles of scientific inquiry to provide evidence-based practice; assume leadership in managing and evaluating continuous quality improvement processes; use information systems/technology to evaluate programs of care, outcomes of care and care systems; advocate and implement health care policies that improve access, equity, efficiency, and social justice in the delivery of health care; design innovative educational programs for patients, nursing staff, and nursing students using teaching and learning principles; provide ethical, culturally sensitive care in an advanced nursing role independently and collaboratively with professionals from multiple disciplines; monitor the quality of one's own nursing practice based on professional practice standards and relevant statutes and regulations; and apply theories and principles of marketing, economics, consultation, management, and leadership to comprehensively perform an advanced nursing role.

Degree Offered:	M.S.N.
Director (M.S.N.):	Dr. Michele Talley
Phone:	(205) 934-6647
E-mail:	talleym@uab.edu

## Master of Science in Nursing

### Program Description

The MSN curriculum is designed to prepare nurses for advanced generalist or specialty practice, advanced nursing roles, and doctoral study in nursing. Preparation for advanced study in nursing at the MSN level is available in a variety of specialties and advanced roles including **Nurse Practitioner, Nurse Educator, Nursing Informatics, Nursing and Health Systems Administrator**, and Clinical Nurse Leader. Students are admitted to master's study during the fall and spring terms. All nursing core courses and the majority of the master's specialties are offered in the distance accessible format. The total number of clinical hours required varies depending on the option that is selected. Students must meet the full-time relevant clinical practice experience requirement of the specialty and have a current RN license in the state in which they will do their clinical practice prior to enrolling in the advanced practicum courses. Because only a limited number of applicants can be

accommodated in a given academic year, some well-qualified applicants may not be offered admission. In cases where there are more qualified applicants than slots available, the School of Nursing accepts the most qualified who apply.

### Non-Degree Options at the MSN Level

**Post MSN Nurse Practitioner Specialties** MSN graduates who wish to take a designated program of study in preparation for sitting for one of the nurse practitioner certification examinations may apply for non-degree graduate status. This category is called the **Post MSN Nurse Practitioner Option**. Applicants for the Post MSN NP Option are considered on an individual basis, depending on NP practice experience and previous coursework. Applicants that are determined to be ineligible for the Post MSN NP Option will be encouraged to apply for a second MSN degree.

The non-degree graduate student classification makes selected master's-level nursing courses available to persons who have a bachelor's degree in nursing from a regionally accredited institution.

Students interested in the non-degree graduate student classification and the non-degree options below will need to contact UAB School of Nursing Office for Student Success at 205-975-7529 for application instructions

**Teaching Certificate for Post BSN Applicants**-Additionally, applicants at the post-baccalaureate level may choose to seek certification to prepare for the faculty role.

**Registered Nurse First Assist (RNFA) Certificate for Post-Baccalaureate Applicants**- A Registered Nurse First Assistant (RNFA) is prepared to practice in a variety of acute or critical care settings. The RNFA, in collaboration with the surgeon, provides continuous and comprehensive patient care throughout the perioperative period.

### M.S.N. Program Goals

The MSN program of study is designed to prepare nurses who: synthesize research, theoretical formulations, and principles of scientific inquiry to provide evidence-based practice; assume leadership in managing and evaluating continuous quality improvement processes; use information systems/technology to evaluate programs of care, outcomes of care and care systems; advocate and implement health care policies that improve access, equity, efficiency, and social justice in the delivery of health care; design innovative educational programs for patients, nursing staff, and nursing students using teaching and learning principles; provide ethical, culturally sensitive care in an advanced nursing role independently and collaboratively with professionals from multiple disciplines; monitor the quality of one's own nursing practice based on professional practice standards and relevant statutes and regulations; and apply theories and principles of marketing, economics, consultation, management, and leadership to comprehensively perform an advanced nursing role.

### M.S.N. Admission Requirements

Requirements for admission for the MSN degree include the following:

- BSN degree from a regionally accredited institution, equivalent to the one offered by the School of Nursing, UAB;
- Cumulative grade point average of at least 3.0 on a 4.0 scale or on the last 60 semester hours; (Graduates of baccalaureate degree programs in countries other than the United States must have their baccalaureate degree transcripts evaluated by the Educational

Credential Evaluators, Inc. OR The World Education Services Organization);

- Combined score of 297 on verbal and quantitative sections of the GRE; or score of 410 on the MAT; or score of 480 on the GMAT; Test scores submitted to UAB from the GRE, GMAT, or MAT must not be over 5 years old. Applicants with a 3.2 GPA or better may waive the Test Score requirement if they meet the criteria, please see: **GRE/ GMAT/MAT Waiver Process for degree seeking MSN students;**
- International students must achieve a TOEFL examination score of at least 550; and
- Three (3) letters of professional reference attesting to the applicant's potential for graduate study.

### Master of Science in Nursing-Nurse Practitioner

Requirements	Hours
NUR 604 Leadership in Advanced Nursing Practice Roles	3
NUR 606 Translating Evidence into Practice	3
NUR 610 Health Care Systems for Advanced Nursing Practice	3
NUR 612 Advanced Pathophysiology	3
NUR 613 Pharmacology and Therapeutics	3
NUR 614 Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
<b>Total Hours</b>	<b>18</b>

### Adult Gerontology Primary Care

Requirements	Hours
NAH 618L Focus on Advanced Nursing Practice Specialization	3
NAH 621 Advanced Adult Gerontology Nursing I	5
NAH 685L Practicum I: Adult/Gerontology Nurse Practitioner	3
NAH 622 Advanced Adult Gerontology Nursing II	4
NAH 686L Practicum II: Adult/Gerontology Nurse Practitioner	3
NAH 623 Advanced Adult Gerontology Nursing III	5
NAH 692L Residency: Adult/Gerontology Nurse Practitioner	4
<b>Total Hours</b>	<b>27</b>

### Dual Pediatric

Requirements	Hours
NDP 618L Focus on Advanced Nursing Practice Specialization	3
NPE 621 Nurse Practitioner Pediatric Primary Care I	5
NCC 621 Advanced Pediatric Nursing I - Acute Care	4
NPE 622 Nurse Practitioner Pediatric Primary Care II	3
NCC 622 Advanced Pediatric Nursing II - Acute Care	3
NDP 625 Advanced Dual Option Pediatric Nurse Practitioner	2
NPE 685L Practicum I: Nurse Practitioner Pediatric Primary Care	3
NPE 686L Practicum II: Nurse Practitioner Pediatric Primary Care	3
NCC 685L Clinical Practicum I: Advanced Pediatric Nursing - Acute Care	3
NCC 686L Clinical Practicum II: Advanced Pediatric Nursing - Acute Care	3
NDP 692L Residency: Dual Option Pediatric Nurse Practitioner	4
<b>Total Hours</b>	<b>36</b>

### Pediatrics Primary Care

Requirements	Hours
NPE 618L	2

NPE 618L	Focus on Advanced Nursing Practice Specialization	
NPE 621	Nurse Practitioner Pediatric Primary Care I	5
NPE 685L	Practicum I: Nurse Practitioner Pediatric Primary Care	3
NPE 622	Nurse Practitioner Pediatric Primary Care II	4
NPE 686L	Practicum II: Nurse Practitioner Pediatric Primary Care	3
NPE 623	Nurse Practitioner Pediatric Primary Care III	5
NPE 692L	Practicum III: Nurse Practitioner Pediatric Primary Care Residency	4
<b>Total Hours</b>		<b>26</b>

## Pediatric Primary and Acute Care

Requirements		Hours
NDP 618L	Focus on Advanced Nursing Practice Specialization	3
NPE 621	Nurse Practitioner Pediatric Primary Care I	5
NCC 621	Advanced Pediatric Nursing I - Acute Care	4
NPE 622	Nurse Practitioner Pediatric Primary Care II	4
NCC 622	Advanced Pediatric Nursing II - Acute Care	3
NDP 625	Advanced Dual Option Pediatric Nurse Practitioner	2
NPE 685L	Practicum I: Nurse Practitioner Pediatric Primary Care	3
NPE 686L	Practicum II: Nurse Practitioner Pediatric Primary Care	3
NCC 685L	Clinical Practicum I: Advanced Pediatric Nursing - Acute Care	3
NCC 686L	Clinical Practicum II: Advanced Pediatric Nursing - Acute Care	3
NDP 692L	Residency: Dual Option Pediatric Nurse Practitioner	4
<b>Total Hours</b>		<b>37</b>

## Master of Science in Nursing

Requirements		Hours
NUR 604	Leadership in Advanced Nursing Practice Roles	3
NUR 606	Translating Evidence into Practice	3
NUR 610	Health Care Systems for Advanced Nursing Practice	3
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
<b>Total Hours</b>		<b>18</b>

## Adult Gerontology Occupational Health

Requirements		Hours
NAH 618L	Focus on Advanced Nursing Practice Specialization	3
NUR 630	Principles of Epidemiology	3
NUR 671	Principles and Practice of Occupational Toxicology and Disease	4
NUR 674L		3
NUR 674L	Evaluation and Management of Occupational Health and Safety Programs	
NAH 621	Advanced Adult Gerontology Nursing I	5
NAH 622	Advanced Adult Gerontology Nursing II	4
NAH 623	Advanced Adult Gerontology Nursing III	5
NAH 685L	Practicum I: Adult/Gerontology Nurse Practitioner	3
NAH 686L	Practicum II: Adult/Gerontology Nurse Practitioner	3
NAH 692L	Residency: Adult/Gerontology Nurse Practitioner	4
ENH 621	Fundamentals of Industrial Hygiene	3
ENH 670	Fundamentals of Occupational Safety	3
ENH 680		2

ENH 680	Interdisciplinary Field Studies	
ENH 681		4
ENH 681	Interdisciplinary Worksite Evaluations	
<b>Total Hours</b>		<b>49</b>

## Adult Gerontology Acute Care NP

Requirements		Hours
NCA 618L	Focus on Advanced Nursing Practice Specialization	3
NCA 621	Adult Gerontology Acute Care Nursing Practice I	5
NCA 685L	Adult Gerontology Acute Care Nursing: Practicum I	3
NCA 622	Adult Gerontology Acute Care Nursing Practice II	4
NCA 686L	Adult Gero Acute Care Nursing: Practicum II	3
NCA 623	Adult Gerontology Acute Care Nursing Practice III	5
NCA 692L	Residency: Adult Gerontology Acute Care Nursing	4
<b>Total Hours</b>		<b>27</b>

## Adult Gerontology Acute Care NP with Registered Nurse First Assistant

Requirements		Hours
NCA 618L	Focus on Advanced Nursing Practice Specialization	3
NCA 621	Adult Gerontology Acute Care Nursing Practice I	5
NCA 685L	Adult Gerontology Acute Care Nursing: Practicum I	3
NCA 622	Adult Gerontology Acute Care Nursing Practice II	4
NCA 686L	Adult Gero Acute Care Nursing: Practicum II	3
NCA 692L	Residency: Adult Gerontology Acute Care Nursing	4
NCA 623	Adult Gerontology Acute Care Nursing Practice III	5
NFA 620	Surgical Techniques	3
NFA 621		5
NFA 621	Advanced Perioperative Nursing I	
NFA 622	Advanced Perioperative Nursing I: Practicum	1-3
<b>Total Hours</b>		<b>36-38</b>

## Adult Gerontology-Oncology

Requirements		Hours
NAH 618L	Focus on Advanced Nursing Practice Specialization	3
NAH 621	Advanced Adult Gerontology Nursing I	5
NAH 685L	Practicum I: Adult/Gerontology Nurse Practitioner	3
NAH 622	Advanced Adult Gerontology Nursing II	4
NAH 686L	Practicum II: Adult/Gerontology Nurse Practitioner	3
NAH 623	Advanced Adult Gerontology Nursing III	5
NAH 692L	Residency: Adult/Gerontology Nurse Practitioner	4
ONC 621	Advanced Practice Nursing for Oncology Care	3
ONC 622	Cancer Assess, Diag, Managemnt	2
ONC 685L	Practicum I - Oncology Nurse Practitioner	2
ONC 623	Effects Cancer & Cancer Therap	3
ONC 686L	Practicum II - Oncology Nurse Practitioner	2
ONC 692L	Residency - Oncology Nurse Practitioner	2
<b>Total Hours</b>		<b>41</b>

## Adult Gerontology Primary Care with Women's Health Sub-specialty

Requirements		Hours
NAH 618L	Focus on Advanced Nursing Practice Specialization	3
NAH 621	Advanced Adult Gerontology Nursing I	5
NAH 685L	Practicum I: Adult/Gerontology Nurse Practitioner	3

NAH 622	Advanced Adult Gerontology Nursing II	4
NAH 623	Advanced Adult Gerontology Nursing III	5
NAH 692L		2
NAH 692L	Residency: Adult/Gerontology Nurse Practitioner	
NWH 631	Women's Health for Advanced Nursing Practice I	5
NWH 685L	Practicum I: Women's Health Care Nurse Practitioner	3
NWH 632	Women's Health for Advanced Nursing Practice II	4
NWH 686L		2-3
NWH 686L	Practicum II: Women's Health Care Nurse Practitioner	
NWH 692L		4-5
NWH 692L	Residency: Women's Health Care Nurse Practitioner	
<b>Total Hours</b>		<b>40-42</b>

### Family NP Primary Care-Oncology

Requirements	Hours	
NFH 618L	Focus on Advanced Nursing Practice Specialization	3
NFH 621	Family Nurse Practitioner I	5
NFH 685L	Practicum I: Family Nurse Practitioner	3
NFH 622	Family Nurse Practitioner II	4
NFH 686L	Practicum II: Family Nurse Practitioner	3
NFH 623	Family Nurse Practitioner III	5
NFH 692L	Residency: Family Nurse Practitioner	4
ONC 621	Advanced Practice Nursing for Oncology Care	3
ONC 622	Cancer Assess, Diag, Managemnt	2
ONC 685L	Practicum I - Oncology Nurse Practitioner	2
ONC 623	Effects Cancer & Cancer Therap	3
ONC 686L	Practicum II - Oncology Nurse Practitioner	2
ONC 692L	Residency - Oncology Nurse Practitioner	2
<b>Total Hours</b>		<b>41</b>

### Psychiatric-Mental Health Primary Care

Requirements	Hours	
NPN 618L	Focus on Advanced Nursing Practice Specialization	3
NPN 621	Advanced Psychiatric Nursing I	5
NPN 685L	Practicum I: Psychiatric Nurse Practitioner	3
NPN 622	Advanced Psychiatric Nursing II	5
NPN 686L	Practicum II: Psychiatric Nurse Practitioner	3
NPN 623	Advanced Psychiatric Nursing III	4
NPN 692L	Residency: Psychiatric Nurse Practitioner	4
<b>Total Hours</b>		<b>27</b>

### Women's Health

Requirements	Hours	
NWH 618L	Focus on Advanced Nursing Practice Specialization	3
NWH 631	Women's Health for Advanced Nursing Practice I	3-5
NWH 685L	Practicum I: Women's Health Care Nurse Practitioner	1-3
NWH 632	Women's Health for Advanced Nursing Practice II	3-5
NWH 686L	Practicum II: Women's Health Care Nurse Practitioner	2
NWH 633	Advanced Woman's Health Care Nursing III	5
NWH 692L	Residency: Women's Health Care Nurse Practitioner	4

### Nurse Educator

Requirements	Hours	
NTC 660	Foundations of Evidence-Based Nursing Education	3
NTC 658	Simulation and Classroom Technologies for Student Learning	3

NTC 650	Instructional Strategies For Teaching in Nursing	3
NTC 652	Program and Curriculum Development	3
NTC 654	Evaluation of Instruction in Nursing	3
<b>Total Hours</b>		<b>15</b>

### Clinical Nurse Leader

Requirements	Hours	
NCL 618L	Focus on Advanced Nursing Practice Specialization	2
NCL 620	Systems in Population-based Care I	4
NCL 685L	CNL Practicum I	2
NCL 692L	CNL Capstone Practicum	5
<b>Total Hours</b>		<b>13</b>

### Master of Science in Nursing-Nursing Health Systems Administration

Requirements	Hours	
NUR 604	Leadership in Advanced Nursing Practice Roles	3
NUR 606	Translating Evidence into Practice	3
NUR 610	Health Care Systems for Advanced Nursing Practice	3
NHSA 616	Nursing Financial Management	4
NHSA 617L	Nursing Financial Management Practicum	2
NHSA 618	Human Resource Management	3
NHSA 631	Advanced Quality and Patient Safety	4
NHSA 681L		4
NHSA 681L	Advanced Quality and Patient Safety Practicum	
NHSA 632	Nursing and Health Systems Administration I	4
NHSA 682L	Nursing and Health Systems Administration I Practicum	2
NHSA 633	Nursing and Health Systems Administration II	4
NHSA 683L	Nursing and Health Systems Administration II Practicum	2
<b>Total Hours</b>		<b>38</b>

### Additional Requirements

Candidates for the MSN degree must complete the following requirements: Completion of all coursework and clinical experiences based on the student's Program of Studies, with an overall GPA of 3.0 or better, and grades of B or better in all required courses in the School of Nursing.

Prospective students should use this checklist to obtain specific admissions requirements on how to apply to Graduate School.

Degree Offered:	M.S.N.
Director (Nurse Anesthesia):	Dr. Susan P. McMullan
Phone:	(205) 934-6587
Email:	susanpmcm@uab.edu
Website:	www.uab.edu/na

### Master of Science in Nurse Anesthesia

The Nurse Anesthesia program prepares the registered nurse in all aspects of nurse anesthesia practice at the graduate level. The sequence of student coursework combines the knowledge of basic health sciences, scientific methodology in anesthesia, and advanced preparation to include a state-of-the-art scientific paper. Completion of the prescribed coursework and clinical practice comprise the requirements for the degree. The graduate is eligible to take the National Certification

Examination, which, upon passing, allows them to practice as a certified registered nurse anesthetist.

The Nurse Anesthesia Program has received a ten-year accreditation in 2010 by the Council on Accreditation (COA) of Nurse Anesthesia Programs.

Council on Accreditation of Nurse Anesthesia Educational Programs  
222. South Prospect Ave.  
Park Ridge, IL, 60068  
Phone: (847) 692-7050  
Website: <http://home.coa.us.com/accredited-programs/Pages/CRNA-School-Search.aspx>

### Regional Clinical Sites

Students in the Nurse Anesthesia Program (NAP) at the University of Alabama at Birmingham (UAB) are admitted to one of 5 program components as selected by the student in their application. Students from all components attend classes on campus at UAB for the first ten months. The remainder of the program (clinical rotations) are based at the student's corresponding component site.

Alabama:

- Birmingham
- Dothan
- Huntsville
- Montgomery
- Tuscaloosa

## Professional Program Admission Requirements

Qualified candidates are graduates from an accredited registered nursing program with a baccalaureate degree in nursing. All coursework towards a BSN must be completed by December prior to the start of the Nurse Anesthesia program the following August. Applicants are required to provide proof of a valid professional RN license in the U.S. Only candidates with at least one year experience as an RN in a critical care setting are considered for admission. Acceptance will be based upon the student's academic ability, work experience, and aptitude for a career in nurse anesthesia. The candidate is expected to satisfy the following requirements:

- a minimum cumulative grade point average of 3.0 (A = 4.0),
- a minimum cumulative grade point average of 3.0 in science prerequisites,
- a grade of C or better in each prerequisite course,
- all sections of the GRE must be completed prior to application (verbal reasoning, quantitative reasoning, and analytical writing)
- a personal interview with the selection committee, and
- if accepted, complete the UAB medical history questionnaire and physical, provide proof of required immunizations, and receive satisfactory screening by the UAB Medical Center Student Health Service.

## Professional Program Prerequisites

(courses listed in semester credit hours):

Anatomy (3-4 semester credit hours)  
Physiology (3-4 semester credit hours)

Microbiology (3-4 semester credit hours)  
College Chemistry (3-4 semester credit hours)  
Descriptive Statistics (3 semester credit hours)

## Application Procedure

Applicants interested in the Nurse Anesthesia Program at University of Alabama at Birmingham (UAB) Nurse Anesthesia should apply through NursingCAS. NursingCAS is the online, centralized application service for nursing programs. Visit [www.nursingcas.org](http://www.nursingcas.org) and click "Apply Here" to initiate your application. And then click on "Create Account" and complete the required fields in order to start your application. View this short instructional video on how to complete a NursingCAS application.

- Early Decision Application Deadline: June 1st

The UAB Nurse Anesthesia Program has added an early decision application cycle. Applicants with a desire to attend the UAB Nurse Anesthesia Program should submit the application with all required materials by June 1st for matriculation in Fall of the following year. The screening process for early decision is more stringent and only a few will be chosen. However, applications not chosen for early decision will automatically roll over to the regular admission cycle in September without penalty. If the application rolls over to the regular admission cycle, only applicable changes to the application need to be submitted by September 1st and no additional application fees will be assessed.

Criteria for acceptance: applicants with a desire to attend UAB Nurse Anesthesia Program, otherwise the criteria used for early acceptance is the same as for the regular application cycle though only the top candidates will be selected for the early decision cycle.

Criteria for maintaining status: early acceptance is contingent on completing one year of ICU experience; other contingencies may be assigned on an individual basis.

## Professional Program Application Deadline

- June 1st for early decision (August for fall following year)
- July - Notification of interviews, interviews, and notification of decision
- September 1st for regular admissions cycle
- November - Notification of interview
- December through February - interviews
- Decision notification two weeks after interview
- August - Students begin the program fall semester

UAB Nurse Anesthesia Program Supplemental Application

GPA Calculation Spreadsheet (MAC user please contact Ms. Stacey Smith (205) 934-7412, [staceysmith@uab.edu](mailto:staceysmith@uab.edu))

Applicants are strongly encouraged to complete the GPA calculation spreadsheet and mail with your supplemental application.

## Nurse Anesthesia Curriculum

The Nurse Anesthesia Program begins in the fall semester of each year. It comprises 67 semester hours of didactic instruction and 45 semester hours of clinical practicum and requires 27 months of full-time commitment. Students complete all foundation courses before beginning the clinical practicum, which starts after the first (ten) months of enrollment. The curriculum does not permit enrollment on a part-time basis.

## Master of Science in Nursing-Nurse Anesthesia

Requirements	Hours
NA 620 Anesthesia Pharmacology I	3
NUR 700 Clinical Data Management and Analysis	3
NUR 701 Writing for Publication	3
NUR 735 Population Health in Advanced Practice Nursing	3
NA 602 Anatomy and Physiology for Nurse Anesthesia	6
NA 631 Biochemistry and Physics for Nurse Anesthetists	4
NUR 729 Evidence-Based Practice Design and Translation	3
NUR 731 Philosophical, Theoretical, and Conceptual Foundations for Advanced Practice Nursing	3
NA 621 Anesthesia Pharmacology II	3
NA 670 Anesthesia Pathophysiology I	3
NA 640 Anesthesia Principles I	4
NUR 614	2
NUR 614 Assessment and Diagnostic Reasoning for Advanced Nursing Practice	
NA 618L Focus on Advanced Nursing Practice Specialization	2
NA 641 Anesthesia Principles II	3
NA 650 Regional Anesthesia	2
NA 671 Anesthesia Pathophysiology II	3
NUR 743 Evidence-Based Practice Strategies	3
NA 611L Anesthesia Practicum I	2
NA 642 Anesthesia Principles III	3
NA 645 Professional Aspects of Anesthesia	2
NUR 733 Informatics for Advanced Practice Nursing	3
NA 612L Anesthesia Practicum III (225 clinical hours)	3
NUR 740 Health Policy and Politics: Implications in Health Care	3
NUR 742 Program Evaluation and Methods	3
NA 613L Anesthesia Practicum II (375 clinical hours)	5
NA 795 Critical Concepts I	3
NUR 738L Scholarly Project Development	3
NA 711L Anesthesia Specialty Immersion I	5
NA 796 Critical Concepts II	3
NUR 739L Scholarly Practice Project	4
NA 712L Anesthesia Specialty Immersion II ((375 clinical hours))	5
NA 797 Critical Concepts III	3
NUR 739L Scholarly Practice Project	3
NA 713L Anesthesia Specialty Immersion III	5
<b>Total Hours</b>	<b>111</b>

## Deadlines

Note: See summarized fact sheet for experience requirements.

Entry Date	Deadline	Notes
Fall 2014	June 1, 2013	Early decision
	September 1, 2013	Regular admission cycle
Fall 2015	June 1, 2014	Early decision
	September 1, 2014	Regular admission cycle

## Funding

The School of Nursing at UAB has excellent scholarship, traineeship, fellowship and loan programs in which many students participate. Please visit "funding" for more information.

## Outcomes

### Nurse Anesthesia Clinical Education

The Nurse Anesthesia Program not only provides students with coursework designed to learn the skills they need, the program also focuses on the theoretical and clinical aspects of anesthesia. Students spend much of their time in clinical settings receiving valuable experience.

Clinical experiences give students hands-on practice in the field of anesthesia. After their clinical experiences, nurse anesthesia graduates can:

- evaluate and assess patients pre, post, and intraoperatively;
- plan the anesthetic management and immediate pre and post-anesthesia management;
- develop and implement an appropriate anesthesia plan designated for patients of all ages with a variety of pathological conditions;
- recognize emergency patient conditions and perform skills required during emergency life support situations; and
- recognize, evaluate, and prevent anesthesia complications.

Nurse Anesthesia students participate in several clinical assignments:

1. First year students will receive their first assignments in May during their first year. The first schedule is designated as the summer semester schedule (first year student schedule) and extends from July through August.
2. The second clinical schedule (fall semester schedule) extends from September through October.
3. The second year clinical rotation schedule covers a 12-month period that begins in November and ends in October.
4. One last schedule is made in September or October of the last semester in the program. This lists where graduate students will finish their clinical education during the month of November. Some students request this assignment be the site where they have accepted employment. A priority is placed on these requests and all attempts are made to fulfill them.

Graduate students who have begun their clinical rotations are designated on most program forms as SRNAs (student registered nurse anesthetists). SRNAs at clinical sites are under the direction of the Clinical Coordinator. The Clinical Coordinator is a CRNA clinical faculty who serves as the principal contact person for the program and is in charge of the SRNAs clinical training at a particular clinical site.

Clinical Coordinators, CRNAs and Anesthesiologists also serve the students by:

being available to render clinical assistance in the operating room suite or other areas where anesthesia services are required;

- apprising the student of clinical responsibilities;
- serving as a role model; and
- providing evaluation and feedback to the students.

- providing a variety of clinical rotations within the facility

Clinical rotations are adjusted in a manner that will address individual student needs. Students cannot be assigned to all affiliates, but the program will attempt to provide each student with equal types of clinical experience.

Degree Offered:	D.N.P.
Director (D.N.P.):	Dr. Aimee Holland
Phone:	(205) 996-9824
E-mail:	aimeeholland@uab.edu

## Doctor of Nursing Practice

### D.N.P. Program Description

The DNP is a practice-focused terminal degree to prepare graduates to practice at the highest level in specialty practice or to assume leadership positions in healthcare. Graduates of the DNP program will focus on providing care to populations and communities with an emphasis on improving quality and access to under served, diverse populations. The three components of the DNP are advanced clinical specialty practice, leadership, and practice inquiry. Graduates will employ abilities and skills in these areas to advocate for reasonable, rational, and data-driven health regulations, standards, and evidence-based practices; sustain collaborative and strategic relationships, promote innovative, effective health care programs; and form partnerships with diverse groups to address health disparities. In addition, graduates will be prepared to assume clinical faculty positions to address the critical nursing faculty shortage.

For most students, the Post-Master's DNP curriculum will be a minimum of 34 credits, which includes the development of a practice or leadership focused project. This Scholarly Project is designed to synthesize scholarship in an advanced practice specialty or an area of healthcare leadership and serves as a capstone program experience. All courses are offered in a distance accessible format and students may develop the scholarly project under the direction of program faculty and onsite mentors. Applications will be accepted twice a year for the summer or fall term, to either a full or a part-time cohort. Students enrolled in the DNP program will be required to come on campus between the first and second year for a two to three day intensive experience.

### D.N.P. Program Goals

The D.N.P. program of study is designed to prepare nurses who: evaluate policy, care delivery, and organizational systems for current and future health care needs; translate scientific, theoretical, and ethical principles into healthcare for individuals, families, and populations; incorporate knowledge of current and emerging health technologies to improve care delivery and organizational systems; advocate for social justice, equity, and ethical policies in healthcare; Demonstrate intra and inter-professional collaboration to address health disparities and to improve health care quality across diverse populations and cultures; assume complex leadership roles to advance clinical practice and healthcare delivery at the organizational and systems level and to improve health outcomes of individuals and populations, and assume complex leadership roles to advance clinical practice and healthcare delivery at the organizational and systems level and to improve health outcomes of individuals and populations.

## D.N.P. Admission Requirements

Admission is competitive, based on an assessment of the ability of the applicant to complete the program of studies and on the appropriateness of the requested program of studies to the applicant's stated goals.

Because only a limited number of applicants can be accommodated in a given academic year, some well-qualified applicants may not be offered admission. In cases where there are more qualified applicants than slots available, the School of Nursing accepts the most qualified applicants.

## Bachelor of Science in Nursing to Doctor in Nursing Practice Pathway

### Admissions Requirements (excluding Nurse Anesthesia)

- A BSN from a regionally accredited institution, equivalent to the one offered by UAB School of Nursing.
- Possess an unencumbered nursing license to practice nursing in the state where you plan to conduct your clinical practicum.
- An undergraduate grade point average (GPA) of at least 3.2 on a 4.0 scale either cumulatively or on the last 60 semester credit hours. A 3.5 or higher GPA is recommended.
- (3) Letters of professional reference attesting to the applicant's potential for graduate study
- Some specialty tracks may require specific clinical practice experience prior to enrollment in a specialty courses.

For International Students:

- Prospective international students are asked to first contact International Recruitment and Student Services at [iss@uab.edu](mailto:iss@uab.edu), (205), 934-3328, FAX 934-8664 to determine eligibility in order to submit an application into any academic program listed below.
- All foreign transcripts evaluated by the Educational Credential Evaluators, Inc [www.ece.org](http://www.ece.org) OR the World Education Services [www.wes.org](http://www.wes.org), sent from the evaluators directly to the School of Nursing
- A degree equivalent to a bachelor's degree from a regionally accredited educational institution in the United States
- A score of 500 or higher on the Test of English as a Foreign Language, TOEFL
- Standardized test score. A minimum combined score of 1000 on the verbal and quantitative sections of the Graduate Record Examination (GRE).
- Possess an unencumbered nursing license to practice nursing in the state where you plan to conduct your clinical practicum

## Doctor of Nursing Practice

Requirements		Hours
NUR 700	Clinical Data Management and Analysis	3
NUR 701	Writing for Publication	3
NUR 729	Evidence-Based Practice Design and Translation	3
NUR 731	Philosophical, Theoretical, and Conceptual Foundations for Advanced Practice Nursing	3
NUR 733	Informatics for Advanced Practice Nursing	3
NUR 735	Population Health in Advanced Practice Nursing	3
NUR 737	Interdisciplinary Leadership and Role Development for Practice Excellence	3
NUR 738L	Scholarly Project Development	3

NUR 739L	Scholarly Practice Project <sup>1</sup>	1-7
NUR 740	Health Policy and Politics: Implications in Health Care	3
NUR 742	Program Evaluation and Methods	3
NUR 743	Evidence-Based Practice Strategies	3
<b>Total Hours</b>		<b>34-40</b>

<sup>1</sup> May be repeated, minimum 7 to graduate

## Nurse Practitioner Concentration

Requirements	Hours	
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
NFH 618L	Focus on Advanced Nursing Practice Specialization	3
NFH 621	Family Nurse Practitioner I	5
NFH 622	Family Nurse Practitioner II	4
NFH 685L	Practicum I: Family Nurse Practitioner	3
NFH 623	Family Nurse Practitioner III	5
NFH 686L	Practicum II: Family Nurse Practitioner	3
NFH 692L	Residency: Family Nurse Practitioner	4
NUR 629: Advanced Practice Nursing Synthesis		2
<b>Total Hours</b>		<b>38</b>

## Neonatal Nurse Practitioner Concentration

Requirements	Hours	
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
NNE 618L	Focus on Advanced Nursing Practice Specialization	3
NNE 621	Advanced Neonatal Nursing I	5
NNE 684L	Practicum I: Neonatal Nurse Practitioner	3
NNE 622	Advanced Neonatal Nursing II	4
NNE 685L	Practicum II: Neonatal Nurse Practitioner	3
NNE 623	Advanced Neonatal Nursing III	5
NNE 692L	Residency: Neonatal Nurse Practitioner	4
<b>Total Hours</b>		<b>36</b>

## Adult Gerontology Acute Care Nurse Practitioner Concentration

Requirements	Hours	
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
NCA 618L	Focus on Advanced Nursing Practice Specialization	3
NCA 621	Adult Gerontology Acute Care Nursing Practice I	5
NCA 685L	Adult Gerontology Acute Care Nursing: Practicum I	3
NCA 622	Adult Gerontology Acute Care Nursing Practice II	4
NCA 686L	Adult Gero Acute Care Nursing: Practicum II	3
NCA 623	Adult Gerontology Acute Care Nursing Practice III	5
NCA 692L	Residency: Adult Gerontology Acute Care Nursing	4
<b>Total Hours</b>		<b>36</b>

## Pediatric Primary Care Nurse Practitioner Concentration

Requirements	Hours	
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
NPE 618L	Focus on Advanced Nursing Practice Specialization	3
NPE 621	Nurse Practitioner Pediatric Primary Care I	5
NPE 685L	Practicum I: Nurse Practitioner Pediatric Primary Care	3
NPE 622	Nurse Practitioner Pediatric Primary Care II	4
NPE 686L	Practicum II: Nurse Practitioner Pediatric Primary Care	3
NPE 623	Nurse Practitioner Pediatric Primary Care III	5
NPE 692L	Practicum III: Nurse Practitioner Pediatric Primary Care Residency	4
<b>Total Hours</b>		<b>36</b>

## Psychiatric/Mental Health Nurse Practitioner Concentration

Requirements	Hours	
NUR 612	Advanced Pathophysiology	3
NUR 613	Pharmacology and Therapeutics	3
NUR 614	Assessment and Diagnostic Reasoning for Advanced Nursing Practice	3
NPN 618L	Focus on Advanced Nursing Practice Specialization	3
NPN 621	Advanced Psychiatric Nursing I	5
NPN 685L	Practicum I: Psychiatric Nurse Practitioner	3
NPN 622	Advanced Psychiatric Nursing II	5
NPN 686L	Practicum II: Psychiatric Nurse Practitioner	3
NPN 623	Advanced Psychiatric Nursing III	4
NPN 692L	Residency: Psychiatric Nurse Practitioner	4
<b>Total Hours</b>		<b>36</b>

## Master of Science in Nursing to Doctor of Nursing Practice Pathway

### Admissions Requirements

- A master's degree in an area of advanced nursing practice (nurse practitioner, clinical nurse specialist, nursing administration, or nurse anesthetist) from a regionally accredited institution, equivalent to that in the UAB School of Nursing. Students must hold an advanced practice certification or be eligible to sit for advanced certification and pass their specific certification exam prior to completing 12 credit hours of coursework. Until advanced certification is achieved, students will be considered as a conditional admit.
- A graduate grade point average of at least 3.0 overall (based on a 4.0 scale) or in the last 60 hours of earned credit.
- Three favorable completed Evaluation Forms from persons who have knowledge of the applicant's potential for success for graduate nursing studies and advanced-practice nursing.
- Current professional certification as an advanced practice nurse where applicable.
- Evidence of an unencumbered license as a (1) registered nurse, and (2) advanced nursing practice or eligibility in the state in which they plan to practice plus (3) CPR certification; all documents must be notarized if applicant is not a licensed nurse in Alabama.

- Personal goal statement that is congruent with the program goals (300 words or less)
- Resume or curriculum vitae.
- A personal interview by phone or in person with a School of Nursing faculty member or designee may be requested to verify application data

## Degree Requirements

Requirements	Hours
NUR 700 Clinical Data Management and Analysis	3
NUR 701 Writing for Publication	3
NUR 729 Evidence-Based Practice Design and Translation	3
NUR 731 Philosophical, Theoretical, and Conceptual Foundations for Advanced Practice Nursing	3
NUR 733 Informatics for Advanced Practice Nursing	3
NUR 735 Population Health in Advanced Practice Nursing	3
NUR 737 Interdisciplinary Leadership and Role Development for Practice Excellence	3
NUR 738L Scholarly Project Development	3
NUR 739L Scholarly Practice Project <sup>1</sup>	1-7
NUR 740 Health Policy and Politics: Implications in Health Care	3
NUR 742 Program Evaluation and Methods	3
NUR 743 Evidence-Based Practice Strategies	3
<b>Total Hours</b>	<b>34-40</b>

<sup>1</sup> May be repeated, minimum 7 to graduate

## Nurse Practitioner Concentration

Requirements	Hours
NHSA 616 Nursing Financial Management	4
NHSA 617L Nursing Financial Management Practicum	3
NHSA 631 Advanced Quality and Patient Safety	3
<b>Total Hours</b>	<b>10</b>

## Additional Requirements

Candidates for the DNP degree must complete the following requirements: Completion of all coursework and clinical experiences based on the student's Program of Studies, with an overall GPA of 3.0 or better, and grades of B or better in all required courses in the School of Nursing.

Degree Offered:	Ph.D.
Director (Ph.D.)	Dr. Karen Heaton
Phone:	(205) 996-9467
E-mail:	kharnp@uab.edu

## Ph.D. Program Description

The Doctor of Philosophy in Nursing is designed to prepare professional nurses as scholars, leaders, and researchers who will make a substantive contribution to the body of knowledge for the discipline of nursing and thereby improve health outcomes for those who receive nursing care. The program of studies builds on preparation at the master's or baccalaureate level. Graduates are prepared for culturally effective leadership roles in research and science, education, health policy, and health care. Doctoral students have the opportunity to develop expertise and conduct research in a selected content area. In addition to structured coursework, the program builds upon a mentorship model which recognizes that

research skills are learned most effectively by working with a faculty research mentor who provides opportunities to practice the use of research techniques and the design and execution of original research within a focused program of research. In addition to core program course requirements, students complete at least 12 credits of required courses and electives in a selected content area. The PhD program was initiated in 1999. Initiated in 2000, the Post-Bachelor's PhD Option allows individuals with baccalaureate degrees in nursing to complete the PhD in nursing without first obtaining a master's degree.

## Ph.D. Program Goals

The PhD curriculum prepares graduates to examine models, concepts and theories for their application in expanding the body of nursing and health care knowledge to: contribute to nursing science and health care through research that is disseminated in professional publications and presentations to the scientific communities and health care consumers; to conduct health care investigations based upon scientifically sound conceptual and methodological decisions about research designs, measures, and analytic methods; to reflect a consistent commitment to scientific integrity in the design, conduct, and dissemination of research; to initiate and collaborate in interdisciplinary research and scholarly endeavors that contribute to health outcomes in a culturally effective manner; and to assume leadership roles in research and scholarship.

## Ph.D. Admission Requirements

- A Master of Science in Nursing (MSN) degree from an accredited institution in the United States, or approved by the Minister of Education for schools of nursing in foreign countries, equivalent to that in the UAB School of Nursing;
- A minimum grade point average of 3.0 overall (based on a 4.0 scale) on all graduate level coursework;
- Completion of GRE within the past 5 years;
- For applicants from non-English speaking countries: a satisfactory TOEFL score (minimum 550);
- Computer literacy and access is required, with proficiency in word processing and e-mail correspondence, as well as familiarity and experience with the Internet. It is recommended that each student have their own personal computer meeting the specifications of the School of Nursing. (Specifications are available from the School of Nursing website);
- Eligibility for licensure as a Registered Nurse in the United States;
- A written goal statement which evidences congruence between the applicant's research interests and School of Nursing faculty research;
- At least one sample of independent written work (in English) that demonstrates the applicant's scholarship potential. Representative examples include a paper, proposal, report, or publication;
- A current curriculum vitae;
- Three references from individuals with expertise to comment on the applicant's capability for research and scholarship (for example, University professors, employers); at least one of the references must be from a doctorally prepared nurse, and;
- A personal interview.

**NOTE:** For the Post-Baccalaureate PhD option, the corresponding requirements are:

- A Bachelor of Science in Nursing (BSN) degree from an accredited institution in the United States, or approved by the Minister of

Education for schools of nursing in foreign countries, equivalent to that in the UAB School of Nursing;

- A minimum grade point average of 3.0 overall (based on a 4.0 scale) on all undergraduate level coursework;
- Completion of GRE within the past 5 years;
- For applicants from non-English speaking countries: a satisfactory TOEFL score (minimum 550);
- Computer literacy and access is required, with proficiency in word processing and e-mail correspondence, as well as familiarity and experience with the Internet. It is recommended that each student have their own personal computer meeting the specifications of the School of Nursing. (Specifications are available from the School of Nursing website);
- Eligibility for licensure as a Registered Nurse in the United States;
- A written goal statement which evidences congruence between the applicant's research interests and School of Nursing faculty research;
- At least one sample of independent written work (in English) that demonstrates the applicant's scholarship potential. Representative examples include a paper, proposal, report, or publication;
- A current curriculum vitae;
- Three references from individuals with expertise to comment on the applicant's capability for research and scholarship (for example, University professors, employers); at least one of the references must be from a doctorally prepared nurse, and;
- A personal interview.

## Ph.D. Degree Requirements

Candidates for the degree of Doctor of Philosophy in Nursing must complete the following requirements:

- Coursework and experiences based on the student's background and substantive area, with an overall GPA of 3.0 or better, and grades of B or better in all required courses on the approved program of studies;
- A comprehensive examination administered upon completion of an individualized program of studies; and
- A written dissertation demonstrating competence in research, individual inquiry, critical analysis using sophisticated statistical and/or qualitative techniques, and in-depth treatment of a health care problem in the selected content area. The investigation must make a genuine scientific contribution to knowledge, concepts, and theories in nursing. A final defense of the dissertation is required.

## Postdoctoral Study

Postdoctoral studies in nursing are individually arranged based on a student's learning needs in specific areas of interest that match the strengths of the graduate faculty. The focus of postdoctoral study is on expanding and extending the student's knowledge base in nursing theory, practice, research, statistics and data management, and generally centers on a research effort of mutual interest to the student and faculty mentor.

## School of Optometry

**Dean:** Kelly K. Nichols, OD, MPH, PhD

Founded in 1969, The UAB School of Optometry (UABSO) earned the notable distinction of being the first optometry school to be located on an academic medical center campus. The School's first Doctor of

Optometry (O.D.) degrees were awarded in 1973 and since that time, the School has grown to include graduate degrees in Vision Science, post-doctoral optometry residency education, and the highly-unique OD/MBA dual-degree program. With relatively small class sizes of less than 50 students, an integrated medical/professional program for 1<sup>st</sup> year students, and an esteemed reputation in vision science research, UABSO continually remains positioned among the top optometry schools in the nation.

## Vision Science

Degree Offered:	PhD, MS, OD/MS
Program Director:	Michael Twa, OD, PhD
Program Manager:	Stefanie B. Varghese, PhD
Phone:	(205) 934-6743
E-mail:	sbvarghese@uab.edu
Website:	<a href="http://www.uab.edu/vsgp/">http://www.uab.edu/vsgp/</a>

## Program Information

Vision Science is a multidisciplinary field where basic scientists and clinicians focus on the discovery of new knowledge that will further our understanding of the eye and vision. This discovery includes virtually every scientific discipline where advances come from biologists, neuroscientists, optical engineers, epidemiologists, psychologists, optometrists, physicians and others.

The Vision Science Graduate Program at the University of Alabama at Birmingham provides comprehensive training for the next generation of leaders in vision science. Your decision to pursue graduate training in this program will place you at the center of one of the nation's top biomedical research institutions and will immerse you in collaborative multidisciplinary research environment that is today's model for biomedical research leadership. Moreover, our training environment will present opportunities for creative career paths such as dual degree programs with business, law and public health that will allow you to position yourself for a career as unique as your individual talents and interests.

## Admission and Financial Aid

Applications for admission to the graduate program in vision science are reviewed by the Vision Science Graduate Program Admissions Committee. Qualified students admitted to the program may receive financial assistance in the form of annual stipends, tuition support, scholarships, and student health insurance.

## Master of Science Degree

Two calendar years are generally required to complete the Master of Science degree (MS) in the Vision Science Graduate Program. Each candidate must complete a minimum of 30 hours of credit: 24 credit hours in vision science and 6 credit hours in related graduate courses. In addition, the candidate must successfully complete and defend a research thesis.

## Admission Requirements:

- GRE Required (subject tests are optional)
- TOEFL or IETLS tests required for international students (see program website for minimum scores)
- Undergraduate GPA of 3.0 on a 4.0 scale (B average)

- Strong background in the biological, physical or health sciences
- Three letters of recommendation

## Doctor of Optometry / Master of Science —Dual Degree

Selected students in the UAB optometry professional program are encouraged to combine the clinical doctorate degree with additional research training in Vision Science. Financial assistance is available for qualified students. Potential candidates should have completed an undergraduate degree in a biological, physical, or health science field.

### Admission Requirements:

- See Master Degree Requirements
- OAT scores can be used in lieu of GRE requirement

## Doctor of Philosophy Degree

Doctoral research training leading to the PhD degree in vision science is based upon completion of graduate course work, a qualifying examination, research accomplishments, and successful defense of a dissertation. There is considerable flexibility in the coursework for the PhD in vision science. Each student is required to take the first-year core curriculum for their respective track, as well as courses in statistics and the ethical conduct of research. Students then take three additional courses, selected by the student in consultation with their academic advisor, which can include a wide range of interdisciplinary topics. Other graduate level courses can be substituted so that students can take maximum advantage of offerings in other programs at UAB. Individuals with previous clinical training will have opportunities for further clinical development and research integration. Students are also required to gain teaching experience.

### Admission Requirements:

- GRE Required (subject tests are optional)
- TOEFL and/or IETLS tests required for international students (see program website for minimum scores)
- Undergraduate GPA of 3.0 on a 4.0 scale (B average)
- Strong background in the biological, physical or health sciences
- Three letters of recommendation

## Additional Information

Deadline for Entry Term(s):	Summer and Fall (No Spring admission)
Deadline for All Application Materials to be in the Graduate School Office:	January 15th
Number of Evaluation Forms Required:	Three
Entrance Tests:	GRE (TOEFL and TWE also required for international applicants whose native language is not English.) OAT is considered for combined degree programs, e.g. OD/ MS.
Web site:	<a href="http://www.uab.edu/vsgp/">http://www.uab.edu/vsgp/</a>

For detailed information, contact the graduate program manager, Dr. Stefanie Varghese, UAB School of Optometry Vision Science Graduate

Program, HPB 516, 1720 2nd Ave S., Birmingham, AL 35294-4390  
(office location: Henry Peters Building, Room 516, 1720 University Blvd.).  
Telephone 205-934-6743  
E-mail [sbvarghese@uab.edu](mailto:sbvarghese@uab.edu)  
Web <http://www.uab.edu/vsgp/>

## School of Public Health

### About the School of Public Health

In 1964 President Lyndon Johnson said, "We have the power to shape the civilization that we want. But we need your will, your labor, your hearts, if we are to build that kind of society." He was, of course, speaking about the "Great Society" initiative that sought to eliminate the oppression of poverty for millions who wanted to share in the American dream. We have learned much in the intervening forty years - that good intentions and money don't often solve complex social and cultural dilemmas; that the technology genie will not go back into the bottle; that we are milliseconds from every nation, every person on the globe.

More than any other discipline, public health has the power to help shape civilization in the 21st century. The UAB School of Public Health offers you the opportunity to join a vibrant community of professionals and scholars whose global-class research and scholarship is exploring complex problems like HIV/AIDS, obesity, and drugs in creative and unusual ways. A graduate degree in public health gives you the ability to tackle head-on the most complicated and thorny issues of our times, the tools to create solutions for those issues, and a uniquely global perspective.

The challenges for the future of public health find an ideal home at UAB. The interests of our faculty and staff extend from community organization in the Black Belt regions of rural Alabama to understanding the dynamics of the HIV epidemic in Sub-Saharan Africa. Few universities offer the almost limitless interdisciplinary collaborative atmosphere available to students at the UAB School of Public Health.

The potential for our students to develop practical and meaningful internship experiences grows daily through partnerships with state and local government agencies, local businesses and industry, and a global network of governmental and non-governmental organizations. The faculty and staff at the School are dedicated and deeply committed to educating and preparing the most well-educated and qualified public health graduates imaginable for the 21st century. We look forward to welcoming you as a student in the School of Public Health. Our dynamic, robust, and exciting programs are a great beginning for launching a truly satisfying career.

### Contact Information

Interim Dean:	Peter Ginter, PhD
Interim Assistant Dean for Academic Affairs:	Erika (Ela) Austin, PhD, MPH
Assistant Dean of Undergraduate Education:	Suzanne E. Judd, PhD
Email:	<a href="mailto:soph@uab.edu">soph@uab.edu</a>
Phone:	(205) 934-4993
Website:	<a href="http://www.uab.edu/PublicHealth">www.uab.edu/PublicHealth</a>

## Admission Requirements

Our graduate programs in Biostatistics, Environmental Health Sciences, Epidemiology, Health Behavior, and Health Care Organization & Policy offer students intellectual tools to address complex problems with a global perspective. Whether you are looking for a highly-rated program that provides the opportunity to work next to leading researchers or a graduate student looking for information related to your studies, we have everything you need. Click the applicable link below for information related to your particular need.

The UAB School of Public Health uses either SOPHAS (the centralized application service for schools and programs of public health) or the UAB Graduate School application for our programs. The Application Fee for SOPHAS is \$135.00 for the designation and the Graduate School's application fee is \$60.00 for Domestic Students.

All students admitted through SOPHAS must also complete a supplemental application. See our **website** for further information on program availability, where to apply, and when to apply.

## Additional Information

Deadline for All Applications (Both US and International)	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
	Spring Term - November 1 (with the exception of Biostatistics, which only admits in the Fall).
	Summer Term – April 1 (with the exception of Biostatistics, which only admits in the Fall).
	Doctoral Programs: Varies by departments
Entrance Test:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
International Transcripts:	International transcripts must be submitted to World Education Services (WES) or Educational Credential Evaluators (ECE) for an official course-by-course credential evaluation (document-by-document evaluations will not suffice).
Number of Evaluation Forms Required:	Three letters of recommendation from academic or professional references
Apply Webpage:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>

## DEGREES OFFERED

### Master of Public Health (M.P.H.)

Prospective students should click [here](#) to obtain specific admission requirements on how to apply.

Biostatistics Concentrations:	Biostatistics
Environmental Health Concentrations:	Accelerated Program Industrial Hygiene Environmental Health & Toxicology (also online) Fast Track MPH in EHS Industrial Hygiene (also online)

	Occupational Health & Safety (also online)
	Environmental and Occupational Health (also online)
Epidemiology Concentrations:	Epidemiology (also online) Fast Track MPH in EPI
Health Behavior Concentrations:	Health Behavior (also online) Fast Track MPH in HB
Health Care Organization and Policy Concentrations:	Fast Track MPH in HCOP Health Care Organization (also online)
	Maternal and Child Health Policy and Leadership (also online)
Public Health Coordinated Degree Programs:	MPH/Doctor of Medicine (UAB) MPH / Doctor of Dental Medicine MPH / Doctor of Optometry MPH / Doctor of Pharmacy (Auburn) MPH / Doctor of Veterinary Medicine (Auburn) MPH / Master of Business Administration MPH (Maternal & Child Health) / Master of Science in Nursing MPH (Health Behavior) / Master of Science in Nursing MPH / MS in Nutrition Sciences, Dietetic Internship/Clinical Track MPH / Juris Doctorate (Samford) MPH / Master in Public Administration MPH / Master in Social Work (with UA; also Online) MPH / Master of Science in Physician Assistant Studies MPH / PhD Biomedical Sciences MPH / PhD Industrial and Systems Engineering (Auburn) MPH / PhD Psychology MPH / PhD Sociology MPH / Master of Science in Health Administration

### Master of Science in Public Health (M.S.P.H.)

Prospective students should click [here](#) to obtain specific admission requirements on how to apply.

Biostatistics Concentrations:	Clinical and Translational Science (BST)
Environmental Health Concentrations:	Environmental Health & Toxicology Industrial Hygiene

Epidemiology Concentrations:	Clinical and Translational Science (EPI) Pharmacoepidemiology and Comparative Effectiveness Research
Health Behavior Concentrations:	Applied Epidemiology Clinical and Translational Science (HB)
Health Care Organization & Policy Concentrations:	Outcomes Research Online
General Track:	MSPH/Doctor of Medicine (UAB) MSPH/ PhD Psychology (UAB and UA)

## Master of Science (M.S.)

Prospective students should click here to obtain specific admission requirements on how to apply.

Biostatistics Concentration:	Biostatistics
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## Doctor of Philosophy (Ph.D)

Prospective students should click here to obtain specific admission requirements on how to apply.

Biostatistics Concentration:	Biostatistics
Environmental Health Sciences Concentration:	Environmental Health Sciences & industrial Hygiene
Epidemiology Concentration:	Epidemiology
Health Behavior Concentration:	Health Education and Health Promotion

## Doctor of Public Health (Dr.P.H.)

Prospective students should click here to obtain specific admission requirements on how to apply.

Health Care Organization & Policy Concentrations:	Health Care Organization Maternal and Child Health Policy Outcomes Research
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For detailed information about the graduate programs offered, please consult the School of Public Health website or visit the UAB School of Public Health:

Ryals Public Health Building  
Room 130, Student Services  
1665 University Boulevard  
Birmingham, AL 35294-0022

**Telephone:** 205-934-4993

**E-mail:** [soph@uab.edu](mailto:soph@uab.edu)

**Website:** [www.uab.edu/PublicHealth](http://www.uab.edu/PublicHealth)

**Facebook:** [www.facebook.com/UABSchoolofPublicHealth](http://www.facebook.com/UABSchoolofPublicHealth)

## Interdisciplinary Programs

### Coordinated Degrees with other Graduate Programs

We offer students a wide range of coordinated degree options. Students can combine a Public Health MPH with over 20 other professional degrees such as business, law, engineering, medicine, nursing, pharmacy, dentistry, optometry, public administration or social work. Students are admitted separately to each program. Students must complete the MPH Core plus 10 credit hours of MPH focus courses for a total of 30 credit hours in addition to the other program's curriculum requirements. Twelve credit hours from the other curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally on line, in class, or through a mix of on line and in class experiences. Out-of state students taking online courses pay the same tuition rate as Alabama residents. The admissions processes are conducted separately, and admissions decisions are made independently by each school.

Program	Coordinator	Room	Phone Number
Coordinated Degree Programs	<a href="mailto:soph@uab.edu">soph@uab.edu</a>	RPHB 130	(205) 934-4993

### Coordinated Degree Programs

- (DMD/MPH) Coordinated Doctor of Dental Medicine / Master of Public Health (p. 176)
- (DVM/MPH) Coordinated Doctor of Veterinary Medicine (Auburn) / Master of Public Health (p. 177)
- (JD/MPH) Coordinated Juris Doctor / Master of Public Health (p. 177)
- (MBA/MPH) Coordinated Master of Business Administration / Master of Public Health (p. 178)
- (MD/MPH) Coordinated Doctor of Medicine / Master of Public Health (p. 179)
- (MD/MSPH) Coordinated Doctor of Medicine / Master of Science in Public Health (p. 179)
- ( (p. 180)MPA/MPH) Coordinated Master of Public Administration/ Master of Public Health (p. 180)
- (MSHA/MPH) Coordinated Master of Science in Health Administration/Master of Public Health (p. 180)
- (MSN/MPH) Coordinated Master of Science in Nursing and MPH in Health Behavior (p. 181)
- (MSN/MPH) Coordinated Master of Science in Nursing / Master of Public Health in Maternal & Child Health Policy & Leadership (p. 181)
- (MS in Nutrition Sciences/MPH) Coordinated Master of Science in Nutrition Sciences, Dietetic Internship / Clinical Track/Master of Public Health (p. 182)
- (OD/MPH) Coordinated Doctor of Optometry/Master of Public Health (p. 182)
- (PhD/MPH) Coordinated PhD Industrial and Systems Engineering (Auburn University School of Engineering) / Master of Public Health (p. 183)
- (PhD/MPH) Coordinated PhD in Biomedical Science / Master of Public Health (p. 183)
- (MSPAS/MPH) Coordinated Master of Science in Physician Assistant Studies / Master of Public Health (p. 184)

- (MSW/MPH) Coordinated Master of Social Work / Master of Public Health (p. 184)
- (PhD/MSPH) Coordinated Doctor of Philosophy (Psychology) and Masters of Science in Public Health (p. 185)
- (Pharm D/MPH) Coordinated Pharm D (Auburn University Harrison School of Pharmacy) / Master of Public Health (p. 185)
- (PHD/MPH) Coordinated PhD in Psychology (HBPY) or Sociology (HSOC) and MPH (p. 186)

## Coordinated Doctor of Dental Medicine / Master of Public Health Program

### (DMD/MPH) Coordinated Doctor of Dental Medicine / Master of Public Health.

Students must be admitted to the UAB School of Dentistry before being considered for the Coordinated DMD/MPH Program. For more information about the Dentistry Program [click here](#).

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### Program Description

This coordinated degree program is offered through the UAB School of Dentistry and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

UAB's School of Dentistry has a rich history of healthcare innovation and a national reputation for excellence providing the community with skilled and knowledgeable dentists through accredited pre-doctoral and 8 accredited postdoctoral areas of study. The MPH degree prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. The DMD/ MPH coordinated degree program broadens students' perspective concerning local and global population health and issues related to poverty and rural and intercity settings as well as the importance of access to care and prevention. The addition of an MPH degree to the DMD also expands career opportunities providing a foundation for positions in health education, research, government, international health as well as private industry.

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### Admissions

Students are admitted separately to the MPH and DMD programs. Upon acceptance to the DMD program, students will be accepted automatically to the MPH degree program. The MPH program may begin at any time; but, it is suggested beginning the summer prior to dental school matriculation or the summer immediately preceding the D1 year.

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### Schedule and Graduation

It is expected that both programs will be completed within five years, at which time both degrees will be awarded. In the event the student fails to complete the requirements for the DMD degree but wishes to obtain the MPH, his or her background and other credentials will be reviewed by the department of interest to the student and if an appropriate MPH

degree program can be identified, additional degree requirements will be determined.

## Coordinated Master of Public Health and Doctor of Medicine in Dentistry (MPH/ DMD) Program

This coordinated degree program is offered through the UAB School of Dentistry and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student. Below is the MPH curriculum for this program, for information about the DMD curriculum please [click here](#).

The DMD and MPH coordinated program may be completed within four years and students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>Core Requirement (21 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 610	Principles of Epidemiologic Research	4
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>Internship (3 hours):</b>		
PUH 697	Practice Placement / Internship	3
<b>MPH Focus Electives (6 hours):</b>		
Minimum 6 credit hours of Public Health (BST, ENH, EPI, GHS, HB, HCO) 600-699 level		6
<b>SOPH Coursework Total</b>		30
<b>DMD Course Options (12 hours):</b>		
<b>Select 12 hours of the approved electives courses below:</b>		
DENT 1140	Evidence-Based Dentistry	3
DENT 3220	Community Dentistry	1
DENT 4510	Community Service Rotations D4	2
DENT 1290	Assessments Portfolio D1	3
DENT 2290	Portfolio Assessments D2	3
DENT 3290	Portfolio Assessments D3	3
DENT 4290	Portfolio Assessments D4	3
<b>Total Hours</b>		42

NOTE: Students must complete the MPH Core, internship and 6 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required DMD curriculum requirements. Twelve credit hours from the DMD curriculum are credited toward the MPH degree for a total of **42 MPH credit hours**.

For additional information concerning the coordinated DMD/MPH program contact the School of Public Health at [soph@uab.edu](mailto:soph@uab.edu) or Ken Tilashalski in the School of Dentistry at [drt@uab.edu](mailto:drt@uab.edu).

## Coordinated Doctor of Veterinary Medicine (Auburn) / Master of Public Health Program

### (MPH/DVM) Coordinated Doctor of Veterinary Medicine / Master of Public Health (Auburn)

Students must be admitted to the Auburn University's Veterinary Medicine program before being considered for the Coordinated DVM/MPH Program. For more information about the DVM Program please contact the College of Veterinary Medicine at Auburn University; [www.vetmed.auburn.edu](http://www.vetmed.auburn.edu), Stephanie Ostrowski, in the Auburn University College of Veterinary Medicine at [sro0002@auburn.edu](mailto:sro0002@auburn.edu).

### Program Description

The DVM/MPH coordinated dual degree program is offered through the Office of Research and Graduate Studies at the Auburn University College of Veterinary Medicine (AUCVM) and the UAB School of Public Health (SOPH). Students may focus their MPH in any one of four areas, including: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy, or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

Through its DVM degree, the AUCVM prepares individuals for careers of excellence in veterinary medicine, including private and public practice, industrial medicine, academics, and research. Through its MPH program, the SOPH prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. These complementary coordinated degree programs provide students with a fuller and richer perspective of and appreciation for community and global health recognizing the intersection of human health, animal health and the environment. Addition of an MPH degree to the DVM broadens career opportunities, providing a foundation for positions in research, government, and international health as well as private industry.

To apply to the UAB School of Public Health MPH Program, interested students should submit their application by visiting the UAB Graduate School website ([uab.edu/graduate](http://uab.edu/graduate)) and click the 'Apply Now' button.

**To View Application Requirements:** [www.soph.uab.edu/graduate/prospective/admissions/us](http://www.soph.uab.edu/graduate/prospective/admissions/us)

### Coordinated Master of Public Health and Doctor of Veterinary Medicine (MPH/DVM) Program

The DVM/MPH coordinated dual degree program is offered through the Office of Research and Graduate Studies at the **Auburn University College of Veterinary Medicine (AUCVM)** and the **UAB School of Public Health (SOPH)**. Students may focus their MPH in any one of four areas, including: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy, or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student. Below is the MPH curriculum

for this program, for information about the DVM curriculum please [click here](#).

Students must complete the MPH Core (20 hours), internship (3 hours) and 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required DVM curriculum requirements. Twelve credit hours from the DVM curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences. Out-of state online students pay the same tuition rate as Alabama residents.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
or EPI 610 Principles of Epidemiologic Research	
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Internship (3 hours):</b>	
PUH 697 Practice Placement / Internship (DVM/MPH focus)	3
<b>MPH Focus Electives (7 hours):</b>	
Minimum 7 credit hours of Public Health (BST, ENH, EPI, GHS, HB, HCO) 600-699 level	7
<b>SOPH Coursework Total</b>	<b>30</b>
<b>Credits from DVM at Auburn University (12 hours):</b>	
VMED 5502: Epidemiology & Biostatistics	1
VMED 5840: Wildlife Diseases	1
VMED 9030: Epidemiology and Zoonoses	2
VMED 9040: Food Safety	2
VMED 9190: Introduction to Veterinary Pharmacology	1
VMED 9250: Virology & Prions	2
VMED 9280: Bacteriology & Mycology	3
<b>Total Hours</b>	<b>42</b>

Note: Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required DVM curriculum requirements. Twelve credit hours from the DVM curriculum are credited toward the MPH degree for a total of 42 MPH credit hours.

For additional information concerning the coordinated DVM/MPH program contact the School of Public Health at [soph@uab.edu](mailto:soph@uab.edu) or Stephanie Ostrowski, in the Auburn University College of Veterinary Medicine at [sro0002@auburn.edu](mailto:sro0002@auburn.edu).

## Coordinated Juris Doctor / Master of Public Health Program

### (JD/MPH) Coordinated Juris Doctor / Master of Public Health Program

The department offers a coordinated Master of Public Health and Juris doctor degree program in cooperation with the Cumberland School of

Law at Samford University, also located in Birmingham. The purpose of the program is to offer future attorneys exposure to the broad areas of public health.

**Admission:** Students enrolled in this program must be enrolled at the Cumberland School of Law. In order to be admitted to the coordinated programs, a student must have a GPA of 2.5 at the end of the first year of law school. A minimum law school GPA of 2.5 each semester and a minimum 3.0 GPA each term in public health are required for students to continue in the coordinated program. Interested students should contact the Office of Student and Academic Services at the School of Public Health for MPH application materials and Cumberland Law School for J.D. application materials.

## JD/MPH Curriculum

**Curriculum:** Students in this track must complete 45 credit hours. This includes the MPH Core, SOPH requirements, track requirements, electives and internship. A total of 90 credit hours of coursework are required for the coordinated JD/MPH. The coordinated JD/MPH degree can be completed in 2 academic years (including 2 summers) of full-time study. Normally, 42 credit hours are required for the MPH degree, however, because of the coordinated nature of the degree, 13 credit hours from the JD curriculum are credited to the MPH and 12 hours from the MPH curriculum are credited to the JD. Students may complete the MPH totally online, in class, or through a mix of online and in class experiences. Out-of-state online students pay the same tuition rate as Alabama residents.

Requirements	Hours
<b>Core Requirements:</b>	17
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	3
PUH 695 The Public Health Integrative Experience	1
<b>SOPH Requirements:</b>	3
PUH 627 Writing & Reviewing Research for MPH Candidates	3
or GRD 727 Writing & Reviewing Research	
<b>Department Track Requirements:</b>	6
HCO 601 Health Economics	3
HCO 603 Public Health Policy	3
<b>Electives:</b>	3
<b>Internship:</b>	3
HCO 697 Internship	3
<b>Transfer of credit for the following Samford Law School courses:</b>	13
Law 502: Torts	4
Law 506: Contracts I	3
Law 507: Contracts II	2
Law 526: Business Organizations	4
<b>Total Credit Hours Earned for Degree:</b>	45

# Coordinated Master of Business Administration / Master of Public Health Program

## Coordinated Master of Public Health and Master of Business Administration (MPH/MBA) Program

This coordinated Master of Business Administration and Master of Public Health degree program is offered through the UAB Collat School of Business and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

The coordinated MBA/MPH program results in two advanced degrees providing students with skills necessary for a broad range of positions in health care management, entrepreneurship, and leadership. MPH coursework typically includes courses in the core public health disciplines as well as health economics, finance, accounting, management, strategic planning, health insurance, and health policy.

## Curriculum

A total of 60 credit hours of coursework are required for the coordinated MBA/MPH. Courses include the Public Health Core plus 7 hours of Public Health focus courses as well 10 MBA courses. Normally, 42 credit hours are required for the MPH and 36 credit hours for the MBA; however, because of the coordinated nature of the degree 12 credit hours from the MBA curriculum are credited to the MPH and six hours from the MPH are credited to the MBA. Students may complete either degree programs totally online, in class, or through a mix of online and in class experiences. Out-of state online students pay the same tuition rate as Alabama residents.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Internship:</b>	
PUH 697 Practice Placement / Internship	3
<b>MPH Focus Electives (7 hours):</b>	
Minimum 7 credit hours of Public Health (BST, ENH, EPI, GHS, HB, HCO) 600-699 level	7
<b>SOPH Coursework Total (30 hours):</b>	
<b>Shared Hours from MBA Program Curriculum (12 hrs):</b>	
MBA 619 Information Technology and Business Strategy	3
MBA 631 Management and Organizations	3
MBA 642 Economics for Managers	3
MBA 651 Marketing Strategy	3
<b>Remaining MBA Program Requirements (18 hours):</b>	
MBA 601 Accounting and Finance for Managers	3
MBA 608 Strategic Cost Analysis and Decision Making	3

MBA 621	Topics in Corporate Finance	3
MBA 634	Strategic Management	3
MBA 637	Operations and Supply Chain Management	3
MBA 662	Quantitative Analysis for Business Managers	3
<b>Total Hours for both MPH/MBA Degrees:</b>		<b>60</b>

## Coordinated Doctor of Medicine / Master of Public Health Program

### (MD/MPH) Coordinated Doctor of Medicine/Master of Public Health

#### Program Description

This coordinated degree program is offered through the UAB School of Medicine and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy, or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

This complementary MD/MPH coordinated degree program provide students with a fuller and richer perspective of community and global health issues including the epidemiology of disease, health behavior, the impact of environmental and occupational factors on patient health, disease progression, management of disease states, access to care and health policy as well as social, legal and ethical issues. Addition of an MPH degree broadens graduates career opportunities providing a foundation for positions in research, government, international health as well as private industry.

### Coordinated Master of Public Health and Doctor of Medicine (MPH/MD) Program

Students may choose between two program formats: a four-year program or a five-year program.

- The four-year program requires students to complete MPH coursework while also completing medical school coursework. Additionally, students in the four-year program begin taking courses the summer before they begin medical school.
- The five-year program requires students to take a one-year leave of absence from medical school to concentrate on MPH coursework.

Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Below are the course required for the MPH degree, for information about the MD curriculum please click here.

Requirements	Hours	
<b>MPH Core Requirement (20 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
or EPI 610	Principles of Epidemiologic Research	
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4

PUH 695	The Public Health Integrative Experience	3
<b>PUH Electives (7 hours):</b>		<b>7</b>
<b>Internship:</b>		
PUH 697	Practice Placement / Internship	3
<b>Credit from MD Curriculum</b>		<b>12</b>
<b>Total Hours</b>		<b>42</b>

Note: Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required MD curriculum requirements. Twelve credit hours from the MD curriculum are credited toward the MPH degree for a total of **42 MPH credit hours**.

For additional information concerning the coordinated MD/MPH program contact the School of Public Health at [soph@uab.edu](mailto:soph@uab.edu).

## Coordinated Doctor of Medicine / Master of Science in Public Health Program

### Coordinated Master of Public Health and Doctor of Medicine (MPH/MD) Program

Students may choose between two program formats: a four-year program or a five-year program.

- The four-year program requires students to complete MPH coursework while also completing medical school coursework. Additionally, students in the four-year program begin taking courses the summer before they begin medical school.
- The five-year program requires students to take a one-year leave of absence from medical school to concentrate on MPH coursework.

Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Below are the course required for the MPH degree, for information about the MD curriculum please click here.

Requirements	Hours	
<b>MPH Core Requirement (20 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
or EPI 610	Principles of Epidemiologic Research	
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>PUH Electives (7 hours):</b>		<b>7</b>
<b>Internship:</b>		
PUH 697	Practice Placement / Internship	3
<b>Credit from MD Curriculum</b>		<b>12</b>
<b>Total Hours</b>		<b>42</b>

Note: Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required MD

curriculum requirements. Twelve credit hours from the MD curriculum are credited toward the MPH degree for a total of **42 MPH credit hours**.

For additional information concerning the coordinated MD/MPH program contact the School of Public Health at [soph@uab.edu](mailto:soph@uab.edu).

## Coordinated Master of Public Administration/Master of Public Health Program

### Coordinated Master of Public Administration/Master of Public Health (MPA/MPH) Program

The MPH/MPA degree program provides students with the knowledge base of public health and the skills required to work effectively in a responsible, administrative position in the public sector. Through this coordinated degree program, students in the MPH program can satisfy some of their requirements through courses in the MPA program and vice versa.

**Admission:** Students entering this program must meet the minimum requirements for admission into the School of Public Health. The student must apply to and be admitted to both programs. The graduate School should be contacted for MPA application materials and the School of Public Health should be contacted for MPH application materials.

### Curriculum

The MPA/MPH program requires the satisfactory completion of 65 credit hours. Students must complete both MPA and MPH core requirements. Students may choose either of two program options - health policy analysis or management. It is anticipated that a full-time student can complete the dual curriculum in 2 years. Part-time students may take up to 5 years to complete their studies. This is a coordinated dual degree track and, as such, graduation from one program is contingent upon completion of all requirements for graduation from the other program. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirements (20 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPA Core Requirements (30 hours):</b>		
MPA 600	Administrative Ethics	3
MPA 601	The Public Policymaking Process	3
MPA 602	Scope of Public Administration	3
MPA 603	Public & Nonprofit Budgeting	3
MPA 604	Human Resources Management	3
MPA 605	Information Management for Government	3
MPA 606	Foundations of PA Research	3
MBA 673	Planning and Pitching a New Business Concept	3

MPA 674	GIS for Managers	3
MPA 697	Graduate Learning Portfolio	3
<b>MPH Concentration Elective (12 hours):</b> Select 4 courses		12
HCO 604	Health Economics and Public Health Policy	
HCO 607	Public Health Law	
HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	
HCO 615	Finance for Health Professionals	
HCO 612	Strategic Management in Health Programs	
or HCO 618	Management Concepts in Public Health Programs	
HCO 620	Health Insurance & Managed Care	
HCO 670	Social and Ethical Issues in Public Health	
<b>Internship (3 hours):</b>		
HCO 697	Internship	3
<b>Total Hours</b>		<b>65</b>

## Coordinated Master of Science in Health Administration/Master of Public Health Program

### Coordinated Master of Public Health and Master of Science in Health Administration (MPH/MSHA) Program

The coordinated Master of Science in Health Administration and Master of Public Health degree program is offered through the UAB School of Health Professions and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or may select a combination of courses from different areas (general MPH). MPH focus courses may be customized to the experience and needs of the student.

The coordinated MSHA/MPH program results in two advanced degrees providing students with management and leadership skills necessary for a broad range of administrative positions in health services organizations. The addition of an MPH to the MSHA degree provides students with a fuller and richer perspective of population and global health issues including the epidemiology of disease, health behavior, the impact of environmental and occupational factors on patient health, disease progression, management of disease states, drug and insurance policy issues, patient access to health care, as well as social, legal and ethical issues. In addition the MPH degree broadens career opportunities, providing a foundation for positions in research, government, and international health as well as private industry.

### Curriculum

A total of 92 credit hours of coursework are required for the coordinated MSPH/MPH. Courses typically include the Public Health Core plus 9 hours of Public Health focus course as well as the required HA courses. Normally, 42 credit hours are required for the MPH and 71 credit hours for the MSHA; however, because of the coordinated nature of the degrees, 12 credit hours from the HA curriculum are credited to the MPH and 9 hours from the MPH curriculum are credited to the MSHA. Students

may complete the MPH program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirement: (21 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 610	Principles of Epidemiologic Research	4
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPH Elective Courses - From Any Department: (9 hours)</b>		
SOPH Elective		3
SOPH Elective		3
SOPH Elective		3
<b>SOPH Coursework Total:</b>		30
<b>Shared Hours with MSHA Program: (12 hours)</b>		
HA 675	Health Administration Internship	3
HA 605	Health Policy and Politics in the U.S.	3
HA 612	Essentials of Health and Human Disease	3
HA 613	Health Law	3
<b>Shared Hours/MPH Total:</b>		42

## Coordinated Master of Science in Nursing and MPH in Health Behavior Program

### Coordinated Master of Science in Nursing / Master of Public Health in Health Behavior (MSN/MPH) Program

The coordinated MPH in Health Behavior/MSN degree is designed to address health behavior content and methods needed by advanced practice nurses. This program of study prepares graduates to participate in the development, implementation, and evaluation of innovative health promotion and disease prevention programs and policies. Graduates may assume a variety of positions in nursing, health behavior, and/or a combination of the two, including leadership roles.

### Curriculum

Students must complete a minimum of 44 semester hours of credit for the MPH degree, which includes six credit hours of required Nursing course work. Twenty credits in the School of Public Health meet the requirements for core courses in the Master of Public Health program and provide a strong knowledge base in epidemiology, biostatistics, health behavior, environmental health sciences and health care organization and policy. Eighteen additional credits meet the requirements for the Health Behavior track in the School of Public Health. The coordinated MPH/MSN degrees can be completed in two years or six consecutive terms if the student registers for full-time study beginning in the fall term. If a coordinated degree student drops out of the MSN program, he/she must apply for transfer to the MPH Health Behavior track and follow the requirements for that program.

Requirements		Hours
<b>MPH Core Requirements (20 hours):</b>		
BST 601	Biostatistics	4

ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>HB Focus Courses (18 hours):</b>		
HB 624	Advanced Social and Behavioral Science Theory	3
HB 636	Developing Interventions to Promote Public Health	3
HB 641	Research Methods in Behavioral Science	3
HB 643	Health Program Evaluation	3
HB 697	Internship	3
Select 3 hours from 600-level or higher (HB) courses		3
<b>SOPH Coursework Total</b>		38
<b>Shared Hours from Coordinated Program (6 hours):</b>		
NUR 604	Leadership in Advanced Nursing Practice Roles	3
NUR 606	Translating Evidence into Practice	3
<b>Total credit hours to complete the degree:</b>		44

## Coordinated Master of Science in Nursing / Master of Public Health in Maternal & Child Health Policy

### Coordinated Master of Science in Nursing / Master of Public Health in Maternal & Child Health Policy & Leadership

The coordinated MPH/MSN degree is designed to address the dynamic health care needs of women and children. This program prepares nurse practitioners to participate in the development, implementation, and evaluation of innovative maternal and child health (MCH) programs and policies. This dual degree builds on the synergy generated through two complementary curriculum tracks. In this educational experience, advanced clinical skill is combined with expertise in program planning and evaluation.

**Admissions:** Students are admitted separately to the MPH and MSN degree programs and must meet admission requirements in both the School of Public Health and the School of Nursing at UAB.

### Curriculum

Students in this track must complete 44 credit hours. This includes the MPH Core, SOPH requirements, track requirements, electives and internship. The coordinated MPH/MSN degree can be completed in 2-3 years of full-time study. Normally, a minimum of 44 credit hours are required for the MPH; however, because of the coordinated nature of the degree, 6 credit hours from the MSN curriculum are credited to the MPH degree. Students may complete the MPH totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirements (20 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3

HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPH Focus Courses (15 hours):</b>		
HCO 604	Health Economics and Public Health Policy	3
HCO 605	Foundations of Maternal and Child Health: Programs and Policies for Women, Children, and Families	3
HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	3
HCO 618	Management Concepts in Public Health Programs	3
HCO 625	Advanced Leadership and Practice in MCH Part I - Introduction to Leadership	1
HCO 626	Adv Leadership and Practice in MCH Module II - Collaborative Leadership and Advocacy	1
HCO 627	ADV Leadership and Practice in MCH Module III - Into the Streets: Lead/Field Experience	1
<b>Internship (3 hours):</b>		
HCO 697	Internship	3
<b>Electives shared with the School of Nursing (6 hours):</b>		
NUR 606	Translating Evidence into Practice	3
NUR 610	Health Care Systems for Advanced Nursing Practice	3
<b>Total Hours</b>		<b>44</b>

## Coordinated MS in Nutrition Sciences, Dietetic Internship / Clinical Track/Master of Public Health

### Master of Public Health and Master in Nutrition Sciences Coordinated Program

This coordinated degree program is offered through the **UAB School of Health Professions, Department of Nutrition Sciences** and the UAB School of Public Health. Students may focus their MPH in any one four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

Drawing upon its distinguished history and a multidisciplinary team of physician-scientists, PhD scientists, registered/licensed dietitians, and nurses working together in patient care, research, and education programs; the MS in Nutrition Sciences, Dietetic Internship/Clinical Track offers an accelerated Master of Science degree from the Department of Nutrition Sciences that enables students to sit for the national exam to become a Registered Dietitian Nutritionist (RDN). This accredited program is offered on-campus or off-campus and it combines supervised clinical practice with online graduate coursework. The MPH at the UAB School of Public Health prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. This complementary MS/MPH dual coordinated degree program provides students with a fuller and richer perspective of community and global health issues including the epidemiology of disease, health behavior, the impact of environmental and occupational factors on patient health, disease progression, management of disease states, insurance policy issues, patient access to care, as well as social, legal and ethical issues.

<b>Requirements</b>		<b>Hours</b>
<b>MPH Core Requirements (23 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
PUH 697	Practice Placement / Internship	3
<b>MPH Focus Electives (7 hours):</b>		
Minimum 7 credit hours of Public Health (BST, ENH, EPI, GHS, HB, HCO) 600-699 level		7
<b>Shared Hours from NTR Program Curriculum (12 hours):</b>		
NTR 621	Applied Statistics to Nutrition Sciences I	3
NTR 690	Seminar	2
NTR 637	Applied Research in Nutrition Sciences	3
NTR 500	Communications in Nutrition	1
NTR 601	Advanced Medical Nutrition	3
<b>Total Hours Earned:</b>		<b>42</b>

Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required MS in Nutrition curriculum requirements. Twelve credit hours from the MS in Nutrition curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

## Coordinated Doctor of Optometry/ Master of Public Health Program

### Coordinated Master of Public Health and Doctor of Optometry (MPH/OD) Program

This coordinated degree program is offered through the **UAB School of Optometry** and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

### Curriculum

Students must complete the MPH Core plus 6 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required OD curriculum requirements. Twelve credit hours from the OD curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

<b>Requirements</b>		<b>Hours</b>
<b>MPH Core Requirements (21 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 610	Principles of Epidemiologic Research	4
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3

<b>Internship:</b>		
PUH 697	Practice Placement / Internship	3
<b>Public Health Electives:</b>		
6		
<b>Credit from OD Curriculum (12 hours):</b>		
12		
OPT 223	Clinical Ophthalmic Optics	1
CLN 222	Community Eye Care I	2
CLN 233	Community Eye Care II	2
BAO 324	Business Aspects of Optometry	3
<b>Total Hours:</b>		42

## Coordinated PhD Industrial and Systems Engineering(Auburn) / Master of Public Health Program

### Coordinated Master of Public Health and PhD in Industrial and Systems Engineering (MPH/PHD) Program

This coordinated degree program is offered through the Auburn University School of Engineering and the UAB School of Public Health. Students focus their MPH in Environmental Health Science. The UAB School of Public Health has partnered with the Auburn School of Engineering's Industrial and Systems Engineering program to provide the opportunity for students in the Auburn University Environmental Engineering Doctoral Program to pursue public health education during their training in engineering in a flexible format that accommodates their academic schedule while assuring critical instruction in the core areas of public health and in specific competency areas considered essential to environmental engineers with public health training.

### Curriculum

Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required PhD curriculum requirements. Twelve credit hours from the PhD curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements	Hours	
<b>MPH Core Requirements: (23 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 697	Practice Placement / Internship	3
PUH 695	The Public Health Integrative Experience	3
<b>ENH Departmental Courses: (7 credits)</b> <small>Minimum of 7 hours</small>		
ENH 612	Assessing & Managing Environmental Risks	3
ENH 621	Fundamentals of Industrial Hygiene	3
ENH 691	Current Topics in Environmental Health and Occupational Health and Safety	1
ENH 650	Essentials of Environmental and Occupational Toxicology and Diseases	3
<b>Total MPH Coursework:</b>		30

### Credit from Auburn's Industrial Engineering Curriculum: (12 hours)

Select 4 courses from approved list		
INSY 5010/6010	Safety Engineering I	3
INSY 7026	Safety Engineering II	3
INSY 7050	Industrial Hygiene and Environmental Hazards	3
INSY 7060	Ergonomics I	3
INSY 7070	Ergonomics II	3
INSY 7086	Human Factors in Engineering Design	3

## Coordinated PhD in Biomedical Science / Master of Public Health Program

### PhD/MPH Coordinated PhD in Biomedical Science / Master of Public Health

#### Program Description

This coordinated degree program is offered through the UAB Graduate Biomedical Sciences (GBS) and the UAB School of Public Health. Students may focus their MPH in Environmental Health Science or Epidemiology. MPH focus courses may be customized to the experience and needs of the student.

A mission of UAB is to be a research university and academic health center that discovers, teaches and applies knowledge for the intellectual, cultural, social and economic benefit of Birmingham, the State and beyond. The MPH at the UAB School of Public Health prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. Therefore, Biomedical Sciences and Public Health have aligned their educational strength in the Ph.D. degree in Biomedical Sciences with a Master's Degree in Public Health, to offer a truly interdisciplinary approach to learning. In response to an NIH study on Graduate Education and Career Opportunities, we are seeking graduate students with an entrepreneurial attitude and a strong will to succeed in an ever-changing scientific landscape.

### Coordinated Master of Public Health and PHD Biomedical Sciences (MPH/PHD) Program

This coordinated degree program is offered through the UAB Graduate Biomedical Sciences (GBS) and the UAB School of Public Health. A mission of UAB is to be a research university and academic health center that discovers, teaches and applies knowledge for the intellectual, cultural, social and economic benefit of Birmingham, the State and beyond. The MPH at the UAB School of Public Health prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. Therefore, Biomedical Sciences and Public Health have aligned their educational strength in the Ph.D. degree in Biomedical Sciences with a Master's Degree in Public Health, to offer a truly interdisciplinary approach to learning. In response to an NIH study on Graduate Education and Career Opportunities, we are seeking graduate students with an entrepreneurial attitude and a strong will to succeed in an ever-changing scientific landscape.

### Curriculum

Students must complete the MPH Core plus 7 credit hours of MPH elective courses for a total of 30 credit hours in addition to the required

GBS curriculum requirements. Twelve credit hours from the GBS curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirement: (23 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 697	Practice Placement / Internship	3
PUH 695	The Public Health Integrative Experience	3
<b>PUH Electives: (7 hours)</b>		
SOPH Elective		3
SOPH Elective		3
SOPH Elective		1
<b>MPH Coursework Total:</b>		30
<b>Biomedical Electives</b>		12
GBSC 731	Intro to Biostats	2
GRD 717	Principles of Scientific Integrity	3
GBSC 726	Science Communication & Review	2
GBS 798	Non-Dissertation Research	5
<b>Total Hours</b>		42

## Coordinated Master of Science in Physician Assistant Studies / Master of Public Health Program

### Coordinated Master of Public Health and Master of Science in Health Administration (MPH/MSHA) Program

The coordinated Master of Science in Physician Assistant Studies and Master of Public Health (MSPAS/MPH) degree program, offered through the UAB School of Health Professions and UAB School of Public Health, provides students with important skills for dealing with population health issues. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

The coordinated graduate degree program provides opportunities for interdisciplinary collaboration and a public health practice experience with rural primary care clinical community partners. This innovative program enhances physician assistant education with integrated training in public health and primary care and thereby provides students with the information and skills needed to monitor and assess community health, develop and analyze programs and policies, coordinate and integrate care, and utilize appropriate population health measures in quality improvement strategies.

### Curriculum

Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required MSPAS

curriculum requirements. Twelve credit hours from the MSPAS curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirements: (23 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
PUH 697	Practice Placement / Internship	3
<b>MPH Elective Courses - From Any Department: (7 hours)</b>		
SOPH Electives:		3
SOPH Electives:		3
SOPH Electives:		1
<b>SOPH Coursework Credit:</b>		30
<b>Credits from PA Curriculum: (12 hours)</b>		
AHS 530:	Health Admin & Management	3
PA 617	Applied Behavioral Medicine	3
PA 618	Risk Management	1
PA 619	Fundamentals of Clinical Research	3
PA 620	Analysis of Professional Literature	2
<b>Total Credit Hours:</b>		42

## Coordinated MSW/MPH in Maternal & Child Health Policy & Leadership

### Coordinated MPH-MSW in Social Work

The MPH/MSW degree program is coordinated between the School of Social Work at the University of Alabama (MSW) and the UAB School of Public Health. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

### Curriculum

Students in this track must complete 42 credit hours. This includes the MPH Core, SOPH requirements, track requirements, electives and internship. A total of 60 credit hours of coursework are required for the coordinated MSW/MPH. The coordinated MPH/MSW degree can be completed in 2 academic years (including 2 summers) of full-time study. Normally, 42 credit hours are required for the MPH degree; however, because of the coordinated nature of the degree, 3 credit hours from the MSW curriculum are credited to the MPH and 12 hours from the MPH curriculum are credited to the MSW. Students may complete the MPH totally online, in class, or through a mix of online and in class experiences. Out-of-state online students pay the same tuition rate as Alabama residents.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	

BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPH Focus Electives (7 hours):</b>		
Minimum 7 credit hours of Public Health (BST, ENH, EPI, GHS, HB, HCO) 600-699 level		7
<b>Internship (3 hours):</b>		
PUH 697	Practice Placement / Internship	3
<b>SOPH Coursework Total</b> (at least 30 hours required)		30
<b>Total Shared Hours from Coordinated Program (12 hours):</b>		
SW 501: Social Welfare Policy: Advanced Policy Analysis		3
SW 570: Research-informed Practice		3
SW 577: Components of Human Development and Social Systems		3
SW 579: Components of Social Work Practice		3
<b>Total Credit Hours for MPH:</b>		42

## Coordinated Doctor of Philosophy (Psychology) and Masters of Science in Public Health

### Coordinated MSPH-PhD in Public Health / Doctor of Philosophy (Psychology)

The department offers coordinated Master of Science in Public Health and PhD degrees in cooperation with the department of Psychology at the University of Alabama at Birmingham or at the University of Alabama (Tuscaloosa).

#### Admission

To be considered for this program, students must first be admitted to the PhD program in clinical psychology at UAB or in the PhD in psychology at the University of Alabama (Tuscaloosa). Students must meet the admission criteria for the School of Public Health and remain in good standing in their PhD program.

#### Program Requirements

The MSPH degree requires a minimum of 43 hours. Students in this coordinated program will be waived from the biostatistics requirement upon documentation of successful completion of Advanced Statistics I and II in the PhD program. Students may emphasize health policy issues or outcomes research issues through 6 hours of approved electives. In addition, all students must complete a 9 credit hour research project. This is a coordinated dual degree track and, as such, graduation from one program is contingent on completion of all requirements for graduation from the other program.

Students receiving a MSPH are required to complete a 13 hour online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

<b>Requirements</b>		<b>Hours</b>
<b>MSPH Core Requirements</b>		10
BST 611	Intermediate Statistical Analysis I	3
BST 612	Intermediate Statistical Analysis II	3
EPI 610	Principles of Epidemiologic Research	4
<b>PhD Track</b>		21
HCO 601	Health Economics	3
HCO 670	Social and Ethical Issues in Public Health	3
HCO 677	Patient-Based Outcomes Measurement	3
HCO 687	Empirical Methods for Health Research	3
HCO 691	Policy Analysis: Modeling & Simulation	3
HCO 721	Clinical Decision Making and Cost Effectiveness Analysis	3
HCO 722	Cost-Effectiveness Research Methods	3
<b>Electives</b>		3
<b>Masters-Level Research</b> Minimum of 9 hours		9
HCO 699	Master's Level Project Research Health Care Organization and Policy	1-9
<b>Total Hours</b>		43

## Coordinated Pharm D (Auburn University Harrison School of Pharmacy) / Master of Public Health

### Coordinated Master of Public Health and Doctor of Pharmacy (MPH/PharmD) Program

This coordinated degree program is offered through the UAB School of Public Health and the Auburn University Harrison School of Pharmacy. Students may focus their MPH in any one of four areas: (1) Environmental Health Science, (2) Epidemiology, (3) Health Behavior, (4) Health Care Organization and Policy or a combination (general MPH). MPH focus courses may be customized to the experience and needs of the student.

The Auburn Doctor of Pharmacy (Pharm D) degree program is a four-year course of study that requires the completion of the pre-pharmacy curriculum prior to enrollment and includes course work in biomedical sciences; pharmaceutical sciences; behavioral, social, and administrative pharmacy sciences; pharmacy practice; and pharmacy practice experience. The MPH degree prepares students for careers to improve the health and well being of individuals, families, communities and populations, locally and globally. These complementary MPH/Pharm D dual coordinated degree programs provide students with a fuller and richer perspective of community and global health issues including the epidemiology of disease, health behavior, the impact of environmental and occupational factors on patient health, disease progression, management of disease states, drug and insurance policy issues, patient access to drug therapy, as well as pharmaceutical social, legal and ethical issues.

## Curriculum

Students must complete the MPH Core plus 7 credit hours of MPH focus courses for a total of 30 credit hours in addition to the required Pharm D curriculum requirements. Twelve credit hours from the Pharm D curriculum are credited toward the MPH degree for a total of 42 MPH credit hours. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements	Hours
<b>MPH Core Requirements: (23 hours)</b>	
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
PUH 697 Practice Placement / Internship	3
<b>MPH Elective Courses - From Any Department: (7 hours)</b>	
SOPH Elective	3
SOPH Elective	3
SOPH Elective	1
<b>SOPH Coursework Total:</b>	30
<b>Shared Credits from Pharmacy Curriculum: (12 hours)</b>	
PYPD 9610: Community Pharmacy Care	5
PYPD 9660: Health System Practice	5
PYPD 9320/9326: Longitudinal Experience	2
<b>Total Credit Hours:</b>	42

## Coordinated PhD in Psychology (HBPY) or Sociology (HSOC) and MPH Program

### Coordinated Master in Public Health / Psychology (MPH/PhD) Program

This dual degree program is offered in cooperation with the UAB Departments of Psychology and Sociology; and the University of Alabama (Tuscaloosa) Department of Psychology. This program enables students to obtain an MPH degree in Health Behavior simultaneously with a PhD in Psychology or Sociology. This program of study prepares graduates to participate in the development, implementation, and evaluation of innovative health promotion and disease prevention programs and policies. This dual degree program builds on the synergy generated through two complementary curriculum tracks.

Curriculum

The MPH degree requires a minimum of 44 credit hours depending on the PhD concentration. Because this is a coordinated dual degree track, graduation from the MPH program is contingent on completion of all requirements for graduation from the PhD program. If a coordinated degree student drops out of the PhD program, he/she must apply for transfer to the MPH Health Behavior track and follow the requirements for that program.

### Coursework

Requirements	Hours
<b>MPH Core Requirement (20 hours):</b>	

PY 716 Introduction to Statistics and Measurement	3
PY 716L Lab for Introduction to Statistics and Measurement	1
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Department Track Requirement (12 hours):</b>	12
HB 624 Advanced Social and Behavioral Science Theory	
HB 636 Developing Interventions to Promote Public Health	
HB 641 Research Methods in Behavioral Science	
HB 643 Health Program Evaluation	
<b>Internship (3 hours):</b>	
HB 697 Internship	3
<b>Behavioral Science Electives (9 hours):</b>	
Select 9 hours of 600-level or higher (HB or PY) courses	9
<b>Total Credit Hours:</b>	44

## Coordinated Master in Public Health / Sociology (MPH/PhD) Program

This dual degree program is offered in cooperation with the UAB Departments of Psychology and Sociology; and the University of Alabama (Tuscaloosa) Department of Psychology. This program enables students to obtain an MPH degree in Health Behavior simultaneously with a PhD in Sociology. This program of study prepares graduates to participate in the development, implementation, and evaluation of innovative health promotion and disease prevention programs and policies. This dual degree program builds on the synergy generated through two complementary curriculum tracks.

### Curriculum

The MPH degree requires a minimum of 43 credit hours depending on the PhD concentration. Because this is a coordinated dual degree track, graduation from the MPH program is contingent on completion of all requirements for graduation from the PhD program. If a coordinated degree student drops out of the PhD program, he/she must apply for transfer to the MPH Health Behavior track and follow the requirements for that program.

Requirements	Hours
<b>MPH Core Requirements (19 hours):</b>	
SOC 703 Regression Analysis	3
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Department Track Requirements (12 hours):</b>	
HB 624 Advanced Social and Behavioral Science Theory	3
HB 636 Developing Interventions to Promote Public Health	3
HB 643 Health Program Evaluation	3
SOC 705 Advanced Research Methods	3
<b>Internship:</b>	
HB 697 Internship	3

**Health Behavior/Sociology Electives (9 hours minimum):** <sup>Two courses</sup> 9  
can be from Sociology & must be approved as a behavioral science elective

**Total Credit Hours:** 43

## Biostatistics

Prospective students should visit <http://www.soph.uab.edu/apply> to obtain specific admissions requirements on how to apply.

Degree Offered:	M.P.H., M.S., M.S.P.H., Ph.D.
Department Chair:	Lloyd J. Edwards, PhD
Phone:	(205) 934-4905
E-mail:	bstgrad@uab.edu
Website:	www.soph.uab.edu/bst
Department Contact:	Della Daniel
Department Contact Email:	ddaniel@uab.edu

The Department of Biostatistics at the University of Alabama at Birmingham (UAB) is one of five departments in the School of Public Health: Biostatistics, Environmental Health Science, Epidemiology, Health Behavior, and Health Care Organization and Policy.

Dr. Lloyd Edwards is the Chair of the department, Dr. Jeff M Szychowski is the Director of Graduate Studies, and Ms. Della Daniel is the department liaison to the graduate program. The department currently has 18 faculty members and includes concentrations in research methods, statistical genetics and clinical trials. Members of the department conduct research in statistical methodology and applications, as well as in fundamental problems of modeling in biological systems. Much of the department's research is collaborative in nature involving projects from basic science, genetics, clinical medicine, public health, and other health-related areas, both within and outside of UAB. Grant support for faculty in the department fall into four broad areas: 1) applied grants involving the application of statistical methods to health-related issues, 2) statistical coordinating centers for large multi-center randomized clinical trials, 3) methodological grants advancing statistical techniques, and 4) training grants for preparing the next generation of statisticians.

## Degree Programs

The Department offers programs leading to the Doctor of Philosophy (PhD), Master of Science (MS), Master of Public Health (MPH), and a Master of Science in Public Health (MSPH). The MS and PhD degrees are offered through the Graduate School. The MPH and MSPH degrees are offered through the School of Public Health.

## Biostatistics Degree Competencies - click here

## Admissions

Entry Term	Deadline
Master Program Deadline:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
PhD Program Deadline:	May 1 (U.S.), April 1 (International)
Number of Evaluation Forms Required:	Three
Entrance Tests: GRE	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>

**TOEFL:** TOEFL is required for international applicants whose native language is not English.

**GPA:** 3.0

**International Transcripts:** International transcripts must be submitted to World Education Services (WES) or Educational Credential Evaluators (ECE) for an official course-by-course credential evaluation (document-by-document evaluations will not suffice).

**SOPH Admissions:** [www.soph.uab.edu/apply](http://www.soph.uab.edu/apply)

**UAB has many degree programs (both on-campus and online) that can lead to professional licensure or certification (PLC). Licensure requirements vary from state to state and by professional organization. UAB is working to develop an online, publically-accessible database, to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please contact the UAB State Authorization office at [stateauth@uab.edu](mailto:stateauth@uab.edu) or call Dr. Lisa Reburn (205) 934-3258.**

## Master of Science in Biostatistics

The Department of Biostatistics offers an MS degree in Biostatistics. This program provides a balance between theory and application, the perspective being the role of statistics and modeling in scientific research. The objective is to produce research-oriented scientists who anticipate a career performing data management and statistical analysis. Further, the MS program is the appropriate program to prepare students to enter the PhD program.

For admission to the program applicants should have a strong academic record and meet the minimum requirements for admission to the School of Public Health. In addition, the applicant's prior collegiate curriculum must include a 3-semester sequence of calculus or equivalent and linear algebra. Proficiency in computing is preferred, as are additional advanced mathematics courses, e.g., differential equations, advanced calculus including special functions, and complex analysis. Some background in the natural sciences would be helpful. The Department of Biostatistics admits MS students in the fall term each year. Interested students should apply online through the **UAB Graduate School**.

All students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>MS Required Courses:</b>	
BST 621 Statistical Methods I	3
BST 622 Statistical Methods II	3
BST 623 General Linear Models	3
BST 626 Data Management and Reporting with SAS & 626L and Data Management and Reporting with SAS Laboratory	3
BST 631 Statistical Theory I	4
BST 632 Statistical Theory II	4

BST 655	Categorical Data Analysis	3
BST 691	Pre-Doctoral Seminar Series <sup>1</sup>	1
BST 691	Pre-Doctoral Seminar Series	1
BST 691	Pre-Doctoral Seminar Series	1
BST 691	Pre-Doctoral Seminar Series	1
<b>Biostatistics Electives (Minimum 6 credit hours):</b>		
BST Courses <sup>2</sup>		6
<b>Required Outside Electives (Minimum 7 graduate credit hours of electives):</b>		
EPI 610	Principles of Epidemiologic Research	4
Other Elective		3
<b>Other Related Courses including BST 698 (Minimum of 6 credit hours):</b>		
BST 698	Non Thesis Research	6
<b>Total Hours:</b>		46

<sup>1</sup> BST 691 - Minimum 4 hours required.

<sup>2</sup> BST Elective: BST 665 Survival Analysis is highly recommended.

## Master of Science in Public Health (MSPH) in Clinical and Translational Science (CTSB)

Master of Science in Public Health in Clinical and Translational Science (CTSB) is an applied statistics degree with a focus on Public Health. This program is open to all qualified applicants with relevant undergraduate, masters, medical, or health science professional degree. For fellows and faculty members interested in developing skills required for clinical research, this program is an ideal post-medical or other health science degree training program. It is anticipated that this academic training will supplement extensive training in the content area in which the student is trained, and senior mentoring in the politics and policies of development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects.

For admission to the MSPH program applicants should have a strong academic record and meet the minimum requirements to the School of Public Health. In addition, the applicant's undergraduate curriculum must include a 2-semester sequence of calculus or equivalent, linear algebra, and proficiency in computing. The Department of Biostatistics admits MSPH students in the fall term each year. Interested students should apply online through the **UAB Graduate School**.

### Curriculum

The MSPH in Clinical and Translational Science consists of a minimum of 41 credit hours. Of these, 20 hours are required, including 15 hours of specific biostatistics courses and 5 hours of specific epidemiology courses. Students then select at least 9 hours from a list of approved Masters Research Electives, complete 3 hours of focus specific electives in biostatistics, and take at least 9 hours of directed (698 level) masters research to fulfill the MSPH requirement for conducting a research project.

All students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

<b>Requirements</b>		<b>Hours</b>
<b>MSPH Core Requirement:</b>		
BST 621	Statistical Methods I	3
BST 622	Statistical Methods II	3
BST 623	General Linear Models	3
BST 625	Design/Conduct Clinical Trials	3
BST 655	Categorical Data Analysis	3
EPI 607	Fundamentals of Clinical Research	3
EPI 680	Topics in Clinical Research	2
<b>Masters Research Selectives (Minimum of 9 credit hours):</b>		9
BST 619	Data Collection and Management	
BST 626 & 626L	Data Management and Reporting with SAS and Data Management and Reporting with SAS Laboratory	
ENH 650	Essentials of Environmental and Occupational Toxicology and Diseases	
EPI 625	Quantitative Methods in Epidemiology	
EPI 703	Grant Proposal Writing	
HB 624	Advanced Social and Behavioral Science Theory	
HCO 677	Patient-Based Outcomes Measurement	
<b>Biostatistics Selectives (Minimum 3 hours of regular courses of 623 or higher level):</b>		
BST Course		3
<b>Masters Project Research (9 hours of supervised research in clinical setting):</b>		
BST 698	Non Thesis Research	9
<b>Total Hours</b>		<b>41</b>

## Doctor of Philosophy in Biostatistics

The Department of Biostatistics offers a PhD degree in biostatistics. This program provides a balance between theory and application, the perspective being the role of statistics and modeling in scientific research. The objective is to produce research-oriented scientists who can advance statistical and modeling theory and can interact effectively with scientists in other disciplines to advance knowledge in those fields.

For admission to the program applicants should have a strong academic record and meet the minimum requirements for admission to the School of Public Health. In addition, the applicant's prior collegiate curriculum must include a 3-semester sequence of calculus or equivalent and linear algebra. Proficiency in computing is preferred, as are additional advanced mathematics courses, e.g., differential equations, advanced calculus including special functions, and complex analysis. Some background in the natural sciences would be helpful. In most cases, a prior MS in biostatistics, statistics, or related field are required for admission to the PhD program. Students with a bachelor's degree are encouraged to pursue a MS degree in Biostatistics before applying to the PhD program. The Department of Biostatistics admits PHD students in the fall term each year. Interested students should apply online through the UAB Graduate School.

### Curriculum

To earn the PhD degree in Biostatistics students must complete a minimum of 88 total credit hours of academic course work. Of these, 45 hours are required core courses and 3 hours are required Graduate School courses. Students then select a minimum 9 credit hours of regular Biostatistics Elective courses of 624 or higher level; a minimum 7 graduate credit hours of outside electives must be taken from a non-quantitative field (i.e. Biology, Public Health or Medicine) with advisor's approval and in some

cases, also approval of instructor; and at least 24 credit hours of other related courses including dissertation research.

All students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>Required Biostatistics Courses (45 hours):</b>	
BST 621 Statistical Methods I	3
BST 622 Statistical Methods II	3
BST 623 General Linear Models	3
BST 626 Data Management and Reporting with SAS & 626L and Data Management and Reporting with SAS Laboratory	3
BST 631 Statistical Theory I	4
BST 632 Statistical Theory II	4
BST 655 Categorical Data Analysis	3
BST 665 Survival Analysis	3
BST 691 Pre-Doctoral Seminar Series <sup>2</sup>	1
BST 691 Pre-Doctoral Seminar Series	1
BST 691 Pre-Doctoral Seminar Series	1
BST 691 Pre-Doctoral Seminar Series	1
BST 691 Pre-Doctoral Seminar Series	1
BST 691 Pre-Doctoral Seminar Series	1
BST 691 Pre-Doctoral Seminar Series	1
BST 723 Theory of Linear Models	3
BST 735 Advanced Inference	4
BST 760 Generalized Linear and Mixed Models	3
BST 765 Advanced Computational Methods	3
<b>Graduate School Requirement (3 hours):</b> <sup>1</sup>	
GRD 717 Principles of Scientific Integrity	3
<b>Biostatistics Electives (minimum 9 hours of 700 level courses):</b>	
BST courses	9
<b>Required Public Health/Medical/Biological Electives (minimum 7 credit hours):</b>	
EPI 610 Principles of Epidemiologic Research	4
Elective	3
<b>Other Related Courses including Research in Statistics (BST 698/798):</b>	
BST 798 Non-Dissertation Research	1-12
<b>Other Related Courses including Dissertation Research (BST 799) <sup>3</sup></b>	
BST 799 Dissertation Research	1-12
<b>Minimum Credit Hours:</b>	<b>88</b>

<sup>1</sup> At least one (1) course related to research ethics and scientific integrity. Does not count toward the required 24 credit hours of didactic course work.

<sup>2</sup> BST 691 - minimum 6 hours required

<sup>3</sup> Two semesters in candidacy and either (1) 24 credit hours of BST 799 or (2) 12 credit hours of BST 799 and 12 credit hours of research-based coursework (approved by Program Director)

## Environmental Health Sciences

Degree Offered:	M.P.H., M.S.P.H., Ph.D.
Interim Chair:	Craig Wilson, MD
Phone:	(205) 934-6080
Website:	www.soph.uab.edu/ehs
Department Contact:	Julie Brown, M.S.
Department Contact Email:	jebrown@uab.edu

### Program Information and Objectives

Environmental Health looks at different factors in our environment and tries to understand their role in the health of individuals and populations. This concentration addresses the environmental risk factors - such as smoke, water, and airborne pollutants - pose to certain populations and their health. Students who concentrate in Environmental Health are well versed in the variety of approaches used to assess risk levels associated with the environment and public health.

The objectives of the program leading to a PhD in Environmental Health Sciences are to prepare students for scientific careers in academia, industry, government, and non-governmental organizations. A combination of didactic, laboratory experience, and/or field-based training will be provided to achieve the specific goals for each student. This degree is granted on the basis of distinctive academic achievement, scholarly proficiency, and original research. The Department offers training in Environmental Health Sciences Research, and Industrial Hygiene.

### Doctoral Degree:

- Environmental Health Sciences

### Master Degrees:

- MPH in Environmental and Occupational Health - (also offered fully online)
- MPH Fast Track Environmental and Occupational Health (5th Year Program)
- MPH Environmental Health and Toxicology
- MPH Occupational Health and Safety (also offered fully online)
- MPH in Industrial Hygiene - (also offered fully online)
- MPH in the Accelerated Program in Industrial Hygiene
- MSPH in Environmental Health Toxicology
- MSPH in Industrial Hygiene

### Environmental Health Sciences Degree Competencies - [Click Here](#)

### Admission

Applicants should have a bachelor's or higher degree in one of the natural sciences, medical sciences, or engineering fields from an accredited college or university. Regardless of degree, this should include courses in biology; general, organic, and physical chemistry; physics; and mathematics through calculus. Applicants interested in specializing in Environmental Toxicology are encouraged to have completed courses in biochemistry and physiology. Industrial Hygiene applicants are expected to have completed Industrial Hygiene courses in an accredited Industrial Hygiene program or the equivalent, or have significant experience in the practice of Industrial Hygiene. Applicants who do not have adequate

preparation in these areas are expected to complete remedial training as part of their didactic requirements.

Master Program Deadline:	www.soph.uab.edu/apply
PhD Program Deadline:	July 1 (U.S.), April 1 (International)
GPA	3.0
Number of Evaluation Forms:	Three
Entrance Tests: GRE	www.soph.uab.edu/apply
TOEFL	TOEFL is required for international applicants whose native language is not English.
SOPH Admissions:	www.soph.uab.edu/apply

**UAB has many degree programs (both on-campus and online) that can lead to professional licensure or certification (PLC). Licensure requirements vary from state to state and by professional organization. UAB is working to develop an online, publically-accessible database, to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please contact the UAB State Authorization office at stateauth@uab.edu or call Dr. Lisa Reburn (205) 934-3258.**

## Master of Public Health in Environmental and Occupational Health Including the MPH Fast Track Program and Online Degree Program

### Curriculum

In addition to the MPH core requirements, students take 20 hours of department track and elective courses and a 3 hour internship for a minimum of 43 credit hours.

Requirements	Hours
<b>Core Requirements: (23 hours)</b>	
BST 601 Biostatistics	4
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
ENH 697 Internship	3
PUH 695 The Public Health Integrative Experience	3
<b>Department Track Requirements: (11 hours)</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 660 Fundamentals of Air and Water Pollution	3
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety	1
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety	1
<b>Department Electives: (9 hours)</b>	
ENH Electives	9
<b>Total Credit Hours:</b>	<b>43</b>

## MPH in Industrial Hygiene

### Including the Online Degree Program

This MPH in Industrial Hygiene track is designed to provide an intensive educational experience for students who have a strong commitment to occupational and industrial health and safety and hazardous substances. It aims to develop the students' understanding of the interrelationships between the basic sciences and the causes and prevention of occupational related diseases. The MPH in industrial hygiene combines didactic research instruction and applied research experience for students with or without previous work experience. Graduates of the program will be capable of developing systematic approaches to identifying and controlling problems in industrial hygiene, designing and implementing research programs to measure the level of work exposure to hazardous agents, and instituting necessary control measures. The industrial hygiene program works with the Deep South Center for Occupational Health and Safety, one of 16 Education and Research Centers partially supported by the National Institute for Occupational Safety and Health (NIOSH). Calculus, although not required, is highly recommended.

### Curriculum:

In addition to the MPH core requirements, students take 22 hours of Industrial Hygiene, an elective course and a 3 hour internship for a minimum of 48 credit hours. Internships are generally paid positions in industry. More than 60 industries nationwide have participated in this program. If a student is a trainee of the Deep South Center ERC and receives NIOSH funding they will be required to take additional courses and conduct a masters research project.

Requirements	Hours
<b>MPH Core Requirement (20 hours):</b>	
BST 601 Biostatistics	4
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Departmental Track Requirement (22 hours):</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 621 Fundamentals of Industrial Hygiene	3
ENH 624 Control of Occupational Hazards	2
ENH 625 Industrial Hygiene Case Studies	2
ENH 626 Physical Agents	2
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 661L Environmental Sampling and Analysis Laboratory	2
ENH 670 Fundamentals of Occupational Safety	3
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety <small>minimum 2 hours</small>	1
<b>Department Elective (3 hours):</b>	
Select 3 hours of 600-level or higher (ENH) course	3
<b>Internship (3 hours):</b>	
ENH 697 Internship	3
<b>Total Hours:</b>	<b>48</b>

## MPH in Accelerated Program in Industrial Hygiene

The MPH in Accelerated Program in Industrial Hygiene is designed specifically for and limited to graduates of undergraduate Industrial Hygiene programs financially supported by the National Institute for Occupational Safety and Health (NIOSH). Graduates of these programs have already received basic courses from NIOSH, peer-reviewed and approved Industrial Hygiene curricula, and are qualified to practice Industrial Hygiene. The Accelerated Program in Industrial Hygiene will broaden the student's public health knowledge and skills while also preparing students to take leadership roles in Industrial Hygiene.

### Curriculum

In addition to the MPH core requirements, students take 13 hours of Industrial Hygiene and 6 hours elective courses and a 3 hour internship for a total minimum of 42 credit hours. Internships are generally paid positions in industry. More than 60 industries nationwide have participated in this program. If a student is a trainee of the Deep South Center ERC and receives NIOSH funding they will be required to take additional courses and conduct a masters research project.

Requirements	Hours
<b>MPH Core Requirement (20 hours):</b>	
BST 601 Biostatistics	4
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Departmental Track Requirement (13 hours):</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 625 Industrial Hygiene Case Studies	2
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 680 Interdisciplinary Field Studies	1
ENH 681 Interdisciplinary Worksite Evaluations	2
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety <small>Minimum of 2 hours</small>	1
<b>Department Research (3 hours):</b>	
ENH 698 Masters Directed Research	3
<b>Department Electives (3 hours):</b>	
Select 3 hours of 600-level or higher (ENH) course	3
<b>Internship (3 hours)</b>	
ENH 697 Internship	3
<b>Total Credit Hours:</b>	42

## MPH in Environmental Health /Toxicology (ETOX)

### Including the MPH Fast Track Program and Online Degree Program

The MPH in Environmental Health / Toxicology studies the links between the environment and public health, studying all aspects of this process from initial exposure to toxicant action to science-based policy

development. We train students to recognize and assess exposures, determine the toxicity risk to the public, and design and properly communicate strategies to reduce risk and help set appropriate policy.

Environmental Health Curriculum: Students pursuing the Environmental Health & Toxicology degree track must complete a total of 44 credit hours including the MPH core courses listed below.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Departmental Track Requirement (12 hours):</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 660 Fundamentals of Air and Water Pollution	3
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety	1
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety	1
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety	1
<b>Department Electives (9 hours):</b>	
Select 9 hours from 600-level or higher (ENH) courses.	9
<b>Internship:</b>	
ENH 697 Internship	3
<b>Total Hours:</b>	44

## Master of Public Health in Occupational Health and Safety

### Including the Online Degree Program

The MPH Occupational Health & Safety studies the links between the occupational environment and worker health, studying all aspects of this process from initial exposure to toxicant action to science-based policy development. We train students to recognize and assess exposures, determine the toxicity risk to workers, and develop strategies and management policies for the prevention of injury and disease.

### Curriculum

In addition to the MPH core requirements, students take 20 hours of Occupational Health & Safety track and elective courses and a 3 hour internship for a minimum of 43 credit hours.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3

<b>Departmental Track Requirement (14 hours):</b>		
ENH 612	Assessing & Managing Environmental Risks	3
ENH 650	Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 670	Fundamentals of Occupational Safety	3
ENH 691	Current Topics in Environmental Health and Occupational Health and Safety <small>minimum 2 hours</small>	1
MBA 631	Management and Organizations	3
<b>Department Elective (6 hours):</b>		
Select 6 hours from 600-level or higher (ENH) courses.		6
<b>Internship (3 hours):</b>		
ENH 697	Internship	3
<b>Total Hours:</b>		43

## Master of Science in Public Health in Environmental Health Toxicology

Environmental health professionals must be able to recognize, evaluate, and control environmental risk factors that may lead to disease. The Master of Science in Public Health program in Environmental Health & Toxicology is designed to provide an intensive educational and research experience. This includes the design and carry out of research to assess the probability that environmental stressors present a risk to humans, and to define safe limits for human exposures. The research aspect of this curriculum is conducted under the requirements of the UAB Graduate School, and includes: formation of a research committee, presentation of a research proposal, conducting of the research, preparation of a formal thesis, and presentation and defense of the thesis.

### Curriculum:

In addition to the MSPH core requirements, students take 26 hours of courses and electives, current topics, and research hours for a minimum of 39 credit hours.

All MSPH students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>MSPH Core Requirements (13 hours):</b>	
BST 611 Intermediate Statistical Analysis I	3
BST 612 Intermediate Statistical Analysis II	3
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 610 Principles of Epidemiologic Research	4
<b>Department Track Requirements (6 hours):</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
<b>Environmental Health Elective (3 hours):</b>	
<b>Masters Directed Research (minimum 6 hours):</b> 6-9	
ENH 698 Masters Directed Research	
<b>Masters Project Research (minimum 7 hours once admitted to candidacy):</b> 7-9	
ENH 699 Masters Level Project Research	
<b>Seminar / Journal Club (minimum 4 hours):</b> 4	

ENH 691 Current Topics in Environmental Health and Occupational Health and Safety

**Minimum Credit Hours Required:** 39

## The Master of Science in Public Health in Industrial Hygiene

The Master of Science in Public Health (MSPH) curriculum with a concentration in Industrial Hygiene will provide students with an option to focus on industrial hygiene topics and provide an intensive research experience. Industrial hygiene professionals must be able to recognize, evaluate, and control occupational situations that may lead to disease. They may also require expertise in designing and conducting studies of occupational and industrial agents to assess the probability that environmental toxics present a risk to workers, and to define safe limits for human exposures. The research aspect of this curriculum is conducted under the requirements of the UAB Graduate School, and includes: formation of a research committee, defense of a research proposal, conduct of the research, preparation of a formal thesis, and presentation and defense of the thesis. The industrial hygiene program works with the Deep South Center for Occupational Health and Safety, one of 16 Education and Research Centers partially supported by the National Institute for Occupational Safety and Health (NIOSH).

### Curriculum:

Students must complete a minimum of 56 credit hours, including public health core courses, industrial hygiene courses, research, and a 3 hour internship. The degree can be obtained in 21 months of full-time study. Students in the MSPH program do a masters thesis. Students pursuing the MSPH in Industrial Hygiene must earn at least 10 hours in the conduct of their thesis research.

All MSPH students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>MSPH Core Requirements (13 hours):</b>	
BST 611 Intermediate Statistical Analysis I	3
BST 612 Intermediate Statistical Analysis II	3
ENH 611 Environmental & Occupational Exposure Assessment	3
EPI 610 Principles of Epidemiologic Research	4
<b>Environmental Health Requirements (26 hours):</b>	
ENH 612 Assessing & Managing Environmental Risks	3
ENH 621 Fundamentals of Industrial Hygiene	3
ENH 624 Control of Occupational Hazards	2
ENH 625 Industrial Hygiene Case Studies	2
ENH 626 Physical Agents	2
ENH 650 Essentials of Environmental and Occupational Toxicology and Diseases	3
ENH 661L Environmental Sampling and Analysis Laboratory	2
ENH 670 Fundamentals of Occupational Safety	3
ENH 680 Interdisciplinary Field Studies <small>Minimum of 2 hours</small>	1
ENH 681 Interdisciplinary Worksite Evaluations <small>Minimum of 4 hours</small>	2
<b>Masters Directed Research (minimum 4 hours):</b>	
ENH 698 Masters Directed Research	1-9

<b>Masters Project Research (minimum of 6 hours once admitted to candidacy):</b>	4
ENH 699 Masters Level Project Research	1-9
<b>Seminar (minimum 4 hours):</b>	
ENH 691 Current Topics in Environmental Health and Occupational Health and Safety <small>Minimum 4 hours</small>	1
<b>Internship (3 hours):</b>	
ENH 697 Internship	3
<b>Minimum Credit Hours Required:</b>	56

## Doctor of Philosophy in the Department of Environmental Health Sciences

The PhD in the Department of Environmental Health Sciences is an academic research degree. The doctoral program prepares scientists for careers in research, environmental program management, risk assessment and policy. Didactic training and research in the identification, evaluation, and control of hazards to human health are emphasized in this program. Students may concentrate on a wide variety of areas including exposure assessment, toxicology, environmental chemistry, air and water pollution, risk assessment and management. In addition to understanding the advanced concepts of environmental health sciences, graduates of this program are expected to develop skills that will enable them to identify and define questions of environmental health importance, design research studies to address these questions, and to complete a program of research that demonstrates abilities as an independent investigator. Graduates are qualified to assume upper-level positions in the public or private sector in research, management, teaching, or consulting.

### Curriculum

PhD students are expected to complete courses in 4 areas. The department track requirements, electives, seminar and journal club hours, and research. Other courses preparatory to dissertation research will be determined by the academic advisor or dissertation committee in consultation with the student.

Students who are admitted to the PhD program with a BA or BS, or those with a master's degree from a different specialty, will be required to complete a minimum of 72 hours. Students entering with a related master's degree will follow the schedule requiring 59 credit hours. The admissions committee will decide which schedule the student is required to follow. These are also the minimum number of required hours: additional coursework that the dissertation committee deems necessary, or additional research hours needed to complete the dissertation, may increase the total number of credit hours.

All PhD students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

### PhD curriculum for students with a relevant masters degree.

Requirements	Hours
<b>Department Track Requirement (18 hours):</b>	
ENH 700 Scientific Basis of Environmental Health	3
ENH 752 Biochemical and Molecular Toxicology	3

ENH 770 Advanced Topics in Environmental Disasters in PUH	3
BST 611 Intermediate Statistical Analysis I	3
EPI 616 Environmental Epidemiology	3
GRD 717 Principles of Scientific Integrity	3

**Electives (6 hours):**  
Select 6 hours from 600-level or higher (ENH) courses. 6

**Department Seminar (4 hours):**  
ENH 790 Seminar: Current Topics in ENH Sciences Research minimum 4 hours 1

**Journal Club (4 hours); ENH 781 or other approved Journal Club courses:**

ENH 781 Journal Club <small>minimum 4 hours</small>	1
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**Directed Research (3 hours):**  
ENH 798 Doctoral Level Directed Res Minimum 3 hours 1-9

**Dissertation Research (minimum 24 hours, atleast 2 semester of candidacy):**

ENH 799 Dissertation Research	1-9
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**Minimum Credit Hours Earned for Degree:** 59

### PhD curriculum for students without a masters degree or relevant masters degree.

Requirements	Hours
<b>Department Track Requirement (18 hours):</b>	
ENH 700 Scientific Basis of Environmental Health	3
ENH 752 Biochemical and Molecular Toxicology	3
ENH 770 Advanced Topics in Environmental Disasters in PUH	3
BST 611 Intermediate Statistical Analysis I	3
EPI 616 Environmental Epidemiology	3
GRD 717 Principles of Scientific Integrity	3
<b>Electives (15 hours):</b>	
Select 15 hours from 600-level or higher (ENH) courses.	15
<b>Department Seminar (4 hours):</b>	
ENH 790 Seminar: Current Topics in ENH Sciences Research <small>minimum 4 hours</small>	1

**Journal Club (4 hours); ENH 781 or other approved Journal Club courses:**

ENH 781 Journal Club <small>minimum 4 hours</small>	1
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**Directed Research (7 hours):**  
ENH 798 Doctoral Level Directed Res minimum 7 hours 1-9

**Dissertation Research (minimum 24 hours, atleast 2 semesters of candidacy):**

ENH 799 Dissertation Research	1-9
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**Minimum Credit Hours Earned for Degree:** 72

### Epidemiology

Prospective students should visit <http://www.soph.uab.edu/apply> to obtain specific admissions requirements on how to apply.

Degree Offered:	Ph.D., M.P.H, M.S.P.H.
Interim Chair:	Emily B. Levitan, ScD
Phone:	(205) 975-7699
Website:	<a href="http://www.soph.uab.edu/epi">www.soph.uab.edu/epi</a>

Department Contact: Kimberly Hawkins King  
 Department Contact E-mail: hawkinsk@uab.edu

## What is Epidemiology?

Epidemiology is the study of trends, patterns, and causes related to disease in populations. Students who concentrate in epidemiology are interested in how diseases spread among given populations. Epidemiologists create complex analytical models to help us understand the causes of and solutions to these diseases more clearly.

Graduates of the UAB Epidemiology program have found employment in academia, research organizations and foundations, industry, public and private health services delivery organizations, and international agencies. Many of our doctoral graduates have faculty positions.

## Degree Programs

- Master of Public Health in Epidemiology (also offered Online)
- MPH Fast Track (5th Year Program)
- Master of Science in Public Health in Applied Epidemiology
- Master of Science in Public Health in Clinical and Translational Science
- Master of Science in Public Health in Pharmacoepidemiology and Comparative Effectiveness Research
- Doctor of Philosophy in Epidemiology

## Epidemiology Degree Competencies - Click Here

## Admission Requirements

Applicants must meet the requirements for admission to the UAB School of Public Health and must demonstrate their aptitude for biological sciences and mathematics by virtue of their college transcripts and GRE scores.

Entry Term	Deadline
Master Program Deadline:	www.soph.uab.edu/apply
PhD Program Deadline:	May 15
GPA:	3.0
Number of Letters of Recommendation Required:	Three
Entrance Tests: GRE	www.soph.uab.edu/apply
TOEFL:	TOEFL is required for international applicants whose native language is not English.
SOPH Admissions:	www.soph.uab.edu/apply

**UAB has many degree programs (both on-campus and online) that can lead to professional licensure or certification (PLC). Licensure requirements vary from state to state and by professional organization. UAB is working to develop an online, publically-accessible database, to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please contact the UAB State Authorization office at stateauth@uab.edu or call Dr. Lisa Reburn (205) 934-3258.**

## Master of Public Health in Epidemiology Including the MPH Fast Track Program and Online Degree Program

This MPH in Epidemiology program is intended for persons who anticipate careers in public health practice. In addition, students who wish to enter doctoral-level training should consider majoring in epidemiology at the master's level. Graduates of the MPH in Epidemiology may assume faculty or research positions in academia or management positions in government or industry if they have other professional degrees (e.g., MD, DDS) as well. Graduates of the program without professional credentials generally assume mid-level positions in academia, industry or government. The MPH in Epidemiology in-person program typically takes 4 semesters or 16 months of full-time coursework to complete. Part-time coursework generally takes students at least 6-8 semesters to complete.

## Curriculum

For full-time students in our MPH program, and for those students who opt to complete our accelerated graduation plan...all core courses can be completed within the first two semesters of enrollment except for PUH 695: Integrative Experience, which MUST be taken in the last semester of enrollment or graduation term (with the exception of graduation in the Summer term, when students would register for PUH 695 in the Spring term). For in-person on campus MPH students, BST 601, EPI 610, EPI 626 and HCO 600 can be taken in the first Fall term of enrollment for a total of 13 credit hours. EPI 625, ENH 600, and HB 600 (with an optional elective) can be taken in the first Spring term of enrollment. MPH students are eligible to register for the required Internship course (EPI 697) as early as their first Summer term of enrollment, or when all core classes have been completed. Students then have the option to choose to register for our 4 credit hour elective course selecting from Epidemiology of Chronic Diseases or Epidemiology of Infectious Diseases. Students are finally required to register for 9 credit hours of electives with the selection from a list of the most popular Epidemiology elective classes. If students opt to register for both EPI of Chronic Diseases (4 hours) and EPI of Infectious Diseases (4 hours), one of the 4 credit hour classes will be able to be counted towards the 9 credit hours of elective coursework requirement.

Requirements	Hours	
<b>MPH Core Requirements</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 610	Principles of Epidemiologic Research	4
EPI 625	Quantitative Methods in Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>Epidemiology Methods Track Requirements</b>		
EPI 626	Introduction to Data Analysis with SAS	2
EPI 627	Data Analysis and Presentation of Epidemiologic Studies	3
<b>Internship</b>		
EPI 697	Internship	3
<b>Required EPI Electives (4 hours) Choose one (1) of the following:</b>		
EPI 602	Epidemiology of Chronic Diseases	4
EPI 605	Epidemiology of Infectious Diseases	4

<b>Electives (Choose from following courses)</b>		Minimum of 6 hours
EPI 603	Injury-Epidemiologic Principles and Prevention Strategies	3
EPI 607Q	Fundamentals of Clinical Research Online	3
EPI 609	Introduction to Pharmacoepidemiology and Drug Safety	3
EPI 614	Epidemiologic Methods Applied to Comparative Effectiveness Research	3
EPI 616	Environmental Epidemiology	3
EPI 618	Fieldwork in Public Health	2
EPI 621	HIV/AIDS and STDs	3
EPI 635	Genetics in Public Health	2
EPI 695	Epidemiology Seminar	1
EPI 698	Master's Level Directed Research Epidemiology	1-9
BST 613	Intermediate Statistical Analysis III	3
BST 619	Data Collection and Management	3
BST 626/BST 626L	Data Management and Reporting with SAS	3
<b>Minimum Credit Hours Required</b>		<b>42</b>

## Master of Science in Public Health in Applied Epidemiology/EPAP

The MSPH in Applied Epidemiology is an academic degree designed for students who wish to receive education and training in epidemiologic applied research methods. Completion of the required core classes (22 credit hours, including 9 hours of independent research), Applied Epidemiology Track requirements (11 hours), required Chronic Diseases or Infectious Diseases elective course (4 hours), and Track-Specific Relevant Electives (5 hours).

Completion of didactic course work, a research project and final thesis defense are required. This degree can be completed in four semesters (from Fall to Fall), or in 16-20 months of full-time coursework.

### Course Requirements

A total of 42 credit hours must be earned to receive the MSPH in Applied Epidemiology degree. At least 9 credit hours must be research credits. Prior to, or at the time of matriculation, the student and advisor must agree on the courses the student will take to fulfill these requirements.

Students receiving a MSPH are required to complete a 3 hour Online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours	
<b>MSPH Core Requirement</b>		
BST 611	Intermediate Statistical Analysis I	3
BST 612	Intermediate Statistical Analysis II	3
EPI 610	Principles of Epidemiologic Research	4
EPI 625	Quantitative Methods in Epidemiology	3
<b>Masters Level Research Requirement (Minimum of 9 hours)</b> <sup>1</sup>		9
EPI 699	Master's Level Project Research Epidemiology	
<b>Applied EPI Track Requirements</b>		11
BST 625	Design/Conduct Clinical Trials	
EPI 626	Introduction to Data Analysis with SAS	
EPI 627	Data Analysis and Presentation of Epidemiologic Studies	
GRD 717	Principles of Scientific Integrity	

EPI 602	Epidemiology of Chronic Diseases	4
or EPI 605	Epidemiology of Infectious Diseases	
<b>Electives</b> <sup>2</sup>		5
BST 613	Intermediate Statistical Analysis III	
BST 619	Data Collection and Management	
EPI 603	Injury-Epidemiologic Principles and Prevention Strategies	
EPI 607Q	Fundamentals of Clinical Research Online	
EPI 609	Introduction to Pharmacoepidemiology and Drug Safety	
EPI 614	Epidemiologic Methods Applied to Comparative Effectiveness Research	
EPI 616	Environmental Epidemiology	
EPI 618	Fieldwork in Public Health	
EPI 621	HIV/AIDS and STDs	
EPI 635	Genetics in Public Health	
EPI 695	Epidemiology Seminar	
EPI 698	Master's Level Directed Research Epidemiology	
<b>Total Hours</b>		<b>42</b>

- EPI 699 Masters Level Project Research can be taken over multiple terms.
- Other options for electives: BST, EPI, ENH, HB courses within the range 600+ level classes. Students should consult their advisor for approval of additional course relevant to their needs and interests.

## Master of Science in Public Health in Pharmacoepidemiology and Comparative Effectiveness Research

The MSPH in Pharmacoepidemiology and Comparative Effectiveness Research program is an academic research degree that is designed to provide students with special training in Epidemiology research methods as applied to Pharmacoepidemiology and Comparative Effectiveness Research. This MSPH concentration will present introductory and advanced topics relevant to the field of Pharmacoepidemiology and will include material on information sources used for research in these fields, sources of bias, study designs, analytical approaches, issues of interpretation of research results, and relevant policy and regulatory activities. All trainees will complete a final thesis defense and presentation during their last term of enrollment or graduation term, that typically will be in the form of one or more papers suitable for publication and addressing a topic in Pharmacoepidemiology and Comparative Effectiveness Research. A number of databases are available for trainee projects.

### Course Requirements

A total of 43 credit hours must be earned to receive the MSPH in Pharmacoepidemiology and Comparative Effectiveness Research. Of these 43 total hours, 22 hours are taken to complete the Core requirement (9 semester hours of required masters level project research EPI 699 is included in the 22 core credit hours). Students then complete 13 hours of PCER Concentration courses, 4 hours of the elective course requirement selecting from either Epidemiology of Chronic Diseases (EPI 602) or Epidemiology of Infectious Diseases (EPI 605), and 4 hours of Track-Specific relevant electives (with the advisor's approval). During the last term of enrollment or final term of graduation, the student is required to complete his/her final thesis paper and defense presentation. The paper is expected to be of publishable quality.

All MSPH students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements		Hours
<b>MSPH Core Requirement (22 Hours)</b>		
BST 611	Intermediate Statistical Analysis I	
BST 612	Intermediate Statistical Analysis II	
EPI 610	Principles of Epidemiologic Research	
EPI 625	Quantitative Methods in Epidemiology	
<b>Masters Level Research Requirement<sup>1</sup></b>		
EPI 699	Master's Level Project Research Epidemiology	minimum 9 hours
<b>PCER Track Requirements (14 hours)</b>		
EPI 609	Introduction to Pharmacoepidemiology and Drug Safety	
EPI 614	Epidemiologic Methods Applied to Comparative Effectiveness Research	
EPI 626	Introduction to Data Analysis with SAS	
EPI 627	Data Analysis and Presentation of Epidemiologic Studies	
GRD 717	Principles of Scientific Integrity	
<b>Required Epidemiology Elective (4 hours) Choose one (1) from the following:</b>		
EPI 602	Epidemiology of Chronic Diseases	4
EPI 605	Epidemiology of Infectious Diseases	4
<b>Track-Specific Relevant Electives (3 hours):</b>		
EPI 603	Injury-Epidemiologic Principles and Prevention Strategies	3
EPI 607Q	Fundamentals of Clinical Research Online	3
EPI 616	Environmental Epidemiology	3
EPI 618	Fieldwork in Public Health	2
EPI 621	HIV/AIDS and STDs	3
EPI 635	Genetics in Public Health	2
EPI 695	Epidemiology Seminar	1
EPI 698	Master's Level Directed Research Epidemiology	1-9
BST 613	Intermediate Statistical Analysis III	3
BST 619	Data Collection and Management	3
BST 625	Design/Conduct Clinical Trials	3
BST 626	Data Management and Reporting with SAS	3
BST 626L	Data Management and Reporting with SAS Laboratory	0
<b>Minimum Credit Hours Required:</b>		43

<sup>1</sup> EPI 699 Masters Level Project Research can be taken over multiple terms. A minimum of 9 hours required.

## Master of Science in Public Health in Clinical & Translational Science Epidemiology

The MSPH in Clinical and Translational Science program is a post-medical or other health science degree training program, aimed primarily at residents in training, fellows, and faculty members interested in developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the student is trained, and senior mentoring in the politics and

policies of project development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects. The program consists of a core set of courses common to all students, plus research elective and focus elective courses that reflect the academic interest of the student. At this time, the program can accommodate students with specific interest in Biostatistics, Epidemiology, and Health Behavior. As a result, there will be some variation in the specific knowledge and skills acquired by each graduate. However, the primary learning objectives will apply to all students, irrespective of departmental affiliation.

## Curriculum

The MSPH in Clinical and Translational Science consists of a minimum of 42 semester hours. Of these, 22 core hours are required, including 6 hours of specific Biostatistics courses and 9 hours of Masters Level Directed Research (EPI 699). Students then complete 13 hours of Clinical Research Concentration courses, 4 hours of either Epidemiology of Chronic Diseases (EPI 602) or Epidemiology of Infectious Diseases (EPI 605) to fulfill the elective required course, and 3 hours of Track-Specific relevant elective credits. The MSPH program requires a thesis research project, paper, and final defense presentation. The thesis project presentation is completed during the last enrollment term or graduation term. The final thesis paper is expected to be of publishable quality. Generally students in our MSPH-CTE program take 18-24 months to complete the coursework, but this is dependent upon each individual student's clinical work and/or rotation schedules.

All MSPH students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements		Hours
<b>MSPH Core Requirement</b>		
BST 611	Intermediate Statistical Analysis I	3
BST 612	Intermediate Statistical Analysis II	3
EPI 610	Principles of Epidemiologic Research	4
EPI 625	Quantitative Methods in Epidemiology	3
<b>Masters Level Research Requirement (minimum 9 hours):</b>		9
EPI 698	Master's Level Directed Research Epidemiology	
<b>Clinical Research Track Requirement (13 hours):</b>		13
EPI 607	Fundamentals of Clinical Research	
or BST 625	Design/Conduct Clinical Trials	
EPI 626	Introduction to Data Analysis with SAS	
EPI 627	Data Analysis and Presentation of Epidemiologic Studies	
EPI 680	Topics in Clinical Research	
GRD 717	Principles of Scientific Integrity	
<b>Required Epidemiology Elective (4 hours) Choose one (1) of the following:</b>		4
EPI 602	Epidemiology of Chronic Diseases	
or EPI 605	Epidemiology of Infectious Diseases	
<b>Track Specific Electives (3 hours):</b>		3
EPI 603	Injury-Epidemiologic Principles and Prevention Strategies	
EPI 609	Introduction to Pharmacoepidemiology and Drug Safety	
EPI 614	Epidemiologic Methods Applied to Comparative Effectiveness Research	

EPI 616	Environmental Epidemiology
EPI 618	Fieldwork in Public Health
EPI 621	HIV/AIDS and STDs
EPI 635	Genetics in Public Health
EPI 698	Master's Level Directed Research Epidemiology
BST 613	Intermediate Statistical Analysis III
BST 619	Data Collection and Management
BST 626 & 626L	Data Management and Reporting with SAS and Data Management and Reporting with SAS Laboratory

**Total Hours** 42

## Doctor of Philosophy in Epidemiology

The PhD in Epidemiology program emphasizes epidemiologic study design and data analysis. The program is designed to prepare exceptionally qualified individuals for a career of research and teaching. Admission is competitive. Applicants should have earned a Master of Public Health (MPH), Master of Science in Public Health (MSPH), Master of Science (MS) degree or equivalent, with a strong background in epidemiology and statistics. Students who complete the degree will master the skills required for conducting independent research in epidemiology, with a firm background in epidemiology, biostatistics, and information management. Specific areas of concentration include chronic disease, infectious disease, molecular epidemiology, and injury epidemiologic methods. Further details of the program may be obtained by contacting the Program Director, Dr. Stella Aslibekyan at saslibek@uab.edu. You may also contact the Coordinator of Graduate Academic Programs, Kimberly King at hawkinsk@uab.edu, or (205) 975-9749. For financial aid and funding questions regarding our PhD program you may also contact Kate Sreenan at ksreenan@uab.edu or (205) 934-7184.

## Curriculum

To earn the PhD degree in Epidemiology students must complete a minimum of 60 total credit hours of academic course work. Of this 60 credit hour minimum, 18 semester hours are required and include Biostatistics and Epidemiology courses. 24 semester hours must be earned in doctoral level didactic Epidemiology courses and/or advanced Biostatistics courses. GRD 717 Principles of Scientific Integrity is also a required course that students take in the program. Students must also complete at least 12 semester hours of directed research (EPI 798) and 12 semester hours of dissertation research (EPI 799). Additionally, students must complete at least two semesters in candidacy (of EPI 799) before being allowed to graduate. The program is usually completed within 3 to 4 years of academic enrollment.

All PhD students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours	
<b>Required Courses (18 hours):</b>		
BST 621	Statistical Methods I	3
BST 622	Statistical Methods II	3
EPI 703	Grant Proposal Writing	3
EPI 704	Advanced Epidemiologic Methods	3
EPI 710	Analysis of Case Control Studies	3

EPI 720	Analysis of Follow-Up Studies	3
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### Research Ethics Requirement: <sup>1</sup>

GRD 717	Principles of Scientific Integrity	3
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### One Additional Doctoral Level Epidemiology Course - Select from the following:

EPI 713	Cancer Epidemiology and Control	3
EPI 721	HIV/AIDS and STDs	3
EPI 731 & 731L	Genetic Epidemiology and Genetic Epidemiology Lab	4
EPI 781	Special Topics in Epidemiology Research	3
EPI 788	Principles and Methods in Molecular Epidemiology	4

### At least two (2) advanced level Biostatistics courses: <sup>2</sup>

BST 623	General Linear Models	3
BST 640	Nonparametric Methods	3
BST 655	Categorical Data Analysis	3
BST 660	Applied Multivariate Analysis	3
BST 661	Structural Equation Modelling	3
BST 665	Survival Analysis	3
BST 670	Sampling Methods	3
BST 671	Meta-Analysis	3
BST 723	Theory of Linear Models	3
BST 735	Advanced Inference	4
BST 740	Bayesian Analysis	3
BST 750	Stochastic Modeling	3
BST 760	Generalized Linear and Mixed Models	3

### At least one (1) doctoral level course in an area of medicine or in one of the major areas of PH other than EPI and BST must be taken. Other courses are available with advisor's approval.

HB 714	Survey Research Methods	3
HCO 711	Child Health and Development: Womb to Young to Adulthood	3
GBS 721	Genetic Epidemiology	2
GBS 727	Advanced Human Genomics	3
GBS 757	Biology of Disease	3
GBSC 715	Molecular Basis of Disease	3

### Required Doctoral Seminar:

EPI 790	Doctoral Seminar in Epidemiology	2
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Must be taken at least twice (2 times)

### Doctoral Level Research (minimum 24 hours):

EPI 798	Doctoral Level Directed Research Epidemiology <sup>3</sup>	1-9
EPI 799	Dissertation Research <sup>4</sup>	1-9

### Optional Elective: to complete total hours required for degree.

HCO 670	Social and Ethical Issues in Public Health	3
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**Minimum Credit Hours:** 60

- One (1) course related to research ethics and scientific integrity (Does not count toward the required 24 credit hours of didactic course work.)
- Other courses may be available in Biostatistics, with your advisor's approval. Please check the course catalog.
- EPI 798: Doctoral-Level Directed Research - Register prior to admission to candidacy; Must have at least 12 hours.
- EPI 799: Dissertation Research - Register after admission to candidacy; Must have at least 12 hours and at least 2 semesters.

## Health Behavior

Prospective students should visit <http://www.soph.uab.edu/apply> to obtain specific admissions requirements on how to apply.

Degrees Offered:	M.P.H.; M.S.P.H.; Ph.D.
Department Chair:	Kevin Fontaine, Ph.D.
Phone:	(205) 934-6020
Department Contact:	Julie Brown, M.S.
Department Contact E-mail:	jebrown@uab.edu
Website:	<a href="http://www.soph.uab.edu/hb">http://www.soph.uab.edu/hb</a>

### Program Information and Objectives

The Department of Health Behavior aims to train health promotion specialists/behavioral scientists to conduct research, develop and evaluate programs, implement and disseminate programs and integrate ethical, cultural and social justice topics as they address the public's health.

Health Behavior MPH and PhD students learn to use theories and methods from the social and behavioral sciences to develop programs that encourage healthy behaviors. They learn state-of-the-art techniques and methods for research and program evaluation. Doctoral students study these topics in depth as they apply their knowledge and skills to conducting research and writing funding proposals and manuscripts. Our research covers obesity prevention including lifestyle interventions, family and adolescent health issues, prevention and control of addictive behaviors, sexual health risks including HIV/AIDS prevention and treatment, community based health promotion, health communication, and dissemination and implementation science.

### Degree Programs

- MPH Health Behavior - also offered fully online
- MPH Fast Track (5th Year Program)
- Coordinated MPH/PhD in Health Behavior and Psychology or Sociology
- Coordinated MPH/MSN in Health Behavior
- MSPH Clinical Research
- Ph.D. Health Education & Health Promotion

### Health Behavior Degree Competencies - Click Here

### Admissions Information

Master Program Deadline:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
PhD Program Deadline:	July 1
GPA	3.0
Number of Letters of Recommendation Required:	Three
Entrance Tests: GRE	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
TOEFL	TOEFL is required for international applicants whose native language is not English.
SOPH Admissions:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>

Comments	For additional information please contact Julie Brown, M.S. ( <a href="mailto:jebrown@uab.edu">jebrown@uab.edu</a> , phone: 205-975-8075)
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**UAB has many degree programs (both on-campus and online) that can lead to professional licensure or certification (PLC). Licensure requirements vary from state to state and by professional organization. UAB is working to develop an online, publically-accessible database, to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please contact the UAB State Authorization office at [stateauth@uab.edu](mailto:stateauth@uab.edu) or call Dr. Lisa Reburn (205) 934-3258.**

### Master of Public Health in Health Behavior

#### Including the MPH Fast Track Program and Online Degree Program

The MPH degree in Health Behavior addresses the behavioral, social, and cultural factors related to individual and population health and health disparities. Students in our program are able to apply social and behavioral science theories to public health problems, develop evidence-based health promotion interventions and disease prevention programs, and apply principles of evaluating health promotion interventions and disease prevention programs. We emphasize the importance of community based participatory research and the application findings through a variety of behavioral and social science health promotion strategies. Classes are designed to be engaging, interactive, and relevant to current health behavior issues. Graduates of our health behavior program are well positioned for opportunities in local, state, and federal agencies, non-profit/community based organizations, private research foundations, as well as the academic setting.

**Curriculum:** In addition to the MPH core requirements, students take 12 hours of health behavior track courses, a 3 hour internship and 9 hours of electives.

Requirements	Hours
<b>MPH Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Departmental Track Requirements (12 hours):</b>	
HB 624 Advanced Social and Behavioral Science Theory	3
HB 636 Developing Interventions to Promote Public Health	3
HB 641 Research Methods in Behavioral Science	3
HB 643 Health Program Evaluation	3
<b>Internship (3 hours):</b>	
HB 697 Internship	3
<b>Social &amp; Behavioral Science Electives (9 hours):</b>	
Select 9 hours of 600-level or higher (HB) courses.	9
<b>Total Hours</b>	<b>44</b>

## MSPH in Clinical Research

In response to interest in medical and other health science schools in developing the clinical research skills of faculty members and fellows, the Schools of Medicine and Public Health have combined efforts to create a training program for young faculty members and fellows from a variety of disciplines.

This program is a post-medical or other health science degree training program, aimed primarily at fellows and faculty members interested in developing skills required for clinical research. It is anticipated that this academic training will supplement extensive training in the content area in which the enrollee is trained, and senior mentoring in the politics and policies of project development and management. A graduate of this program will have the academic training to develop and lead independent research programs and projects. The program consists of a core set of courses common to all students, plus research elective and focus elective courses that reflect the academic interest of the student. Graduates will be able to do the following upon completion of the program:

- Design, conduct, and evaluate clinical research studies;
- Understand issues of data collection and study management;
- Follow appropriate policies and procedures relating to the utilization of human subjects in clinical research;
- Demonstrate an understanding of the ethics of research on human subjects;
- Prepare competitive applications for extramural research funding;
- Prepare manuscripts for publication in the scientific literature; and
- Critically evaluate published research.

## Curriculum

The MSPH in Clinical Research consists of a minimum of 42 credit hours. Of these, 15 hours are required, including 9 hours of specific biostatistics courses and 6 hours of specific epidemiology courses. Students then select at least 6 credit hours from a list of approved Masters Research electives, complete 12 hours of focus specific electives in **Health Behavior**, and take at least 9 hours of Masters Level Directed Research to fulfill the MSPH requirement for conducting a research project.

Students receiving a MSPH are required to complete a 3 hour Online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>MSPH Required Core Courses</b>	
BST 611 Intermediate Statistical Analysis I	3
BST 612 Intermediate Statistical Analysis II	3
BST 625 Design/Conduct Clinical Trials	3
EPI 610 Principles of Epidemiologic Research	4
EPI 680 Topics in Clinical Research	2
<b>Health Behavior Requirements:</b>	
HB 624 Advanced Social and Behavioral Science Theory	3
HB 636 Developing Interventions to Promote Public Health	3
HB 641 Research Methods in Behavioral Science	3
HB 643 Health Program Evaluation	3
<b>Masters Level Research:</b>	

HB 681	MSPH Directed Research I	3
HB 682	MSPH Directed Research II	3
HB 683	MSPH Directed Research III	3
<b>Masters Research Electives (6 hours):</b> 6 hours should be selected by faculty advisor and student to complete total hours required for degree		
BST 619	Data Collection and Management	3
BST 626 & 626L	Data Management and Reporting with SAS and Data Management and Reporting with SAS Laboratory	3
ENH 650	Essentials of Environmental and Occupational Toxicology and Diseases	3
EPI 625	Quantitative Methods in Epidemiology	3
EPI 703	Grant Proposal Writing	3
EPI 704	Advanced Epidemiologic Methods	3
HCO 677	Patient-Based Outcomes Measurement	3
<b>Total Hours</b>		<b>42</b>

## Doctor of Philosophy in Health Education and Health Promotion

The PhD program in health education/promotion provides students with instruction and research experience to become scientists and practitioners in health education and health promotion. The program combines the resources of academic units from the University of Alabama at Birmingham (UAB School of Public Health, Department of Health Behavior, UAB School of Education, Department of Human Studies), and the University of Alabama (UA) College of Human Environmental Sciences, Department of Health Science.

Health Behavior doctoral students learn to use theories and methods from the social and behavioral sciences to develop programs that encourage healthy behaviors. They learn state-of-the-art techniques and methods for research and program evaluation. Students study these topics in depth as they apply their knowledge and skills to conducting research and writing proposals and manuscripts. They have opportunities to become involved in faculty research projects on a broad range of health issues such as behavioral interventions, family and adolescent health issues, obesity prevention, prevention and control of addictive behaviors, sexual health risks including HIV/AIDS prevention and treatment, community based health promotion, health communication, program evaluation, and translation of research findings.

## Curriculum

The PhD program requires completion of a minimum of 73 hours of graduate credit, satisfactory performance on the qualifying exam, and completion of a doctoral dissertation. All PhD students must meet the graduation requirements of their department and the UAB Graduate School.

All PhD students are required to complete a 37 hour, self-paced online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) or experience (5 years in public health) may be waived from this requirement by permission of the Associate Dean.

Requirements	Hours
<b>Department Requirement (18 hours):</b> <sup>1</sup>	
HB 724 Advanced Social and Behavioral Science Theory	3

HB 741	Advanced Research Methods in the Behavioral Sciences	3
HB 736	Advanced Research Intervention Design	3
HB 737	Advanced Intervention Implementation and Evaluation	3
HB 703	Writing for the Behavioral Sciences	3
GRD 717	Principles of Scientific Integrity	3
<b>Joint Courses (3 hours):<sup>2</sup></b>		
HB 770	Doctoral Studies Seminar	1
HB 770	Doctoral Studies Seminar	1
HB 770	Doctoral Studies Seminar	1
<b>Select 9 Hours of Elective Courses for Health Education / Health Promotions:</b>		
HB 602	Alcohol and Drug Abuse	
or HB 605	Physical Activity in Public Health	
or HB 608	Womens Health and Social Behavior	
or HB 609	African-American Health Issues	
or HB 627	GIS for Public Health	
or HB 635	Communities, Families & Health	
or HB 660	Adolescent Health: A Social and Behavioral Perspective	
or HB 692	Principles and Practices of Community Organization	
or HB 706	Energetics: Scientific Foundations of Obesity and Other Health Aspects	
or CHHS 502	Mental Health and Stress Management	
or CHHS 523	Human Sexuality	
or CHHS 526	Wellness Promotion Peer Educators Part 1	
or CHHS 527	SHAPE Peer Education	
or ENH 610	Environmental Disasters	
or EPI 613	Cancer Epidemiology and Control	
or EPI 713	Cancer Epidemiology and Control	
or EPI 621	HIV/AIDS and STDs	
or EPI 635	Genetics in Public Health	
or EPI 703	Grant Proposal Writing	
or EPI 708	Tropical and Infectious Diseases	
or HCO 619	Social Work in Public Health	
or HCO 631	Public Health Demography	
or HCO 670	Social and Ethical Issues in Public Health	
or NTR 769	Race, Nutrition and Health	
<b>Health Education / Health Promotions Advanced Research &amp; Statistical Methods (16 hours; during first 6 semesters):</b>		
EPI 610	Principles of Epidemiologic Research	4
BST 611	Intermediate Statistical Analysis I	3
BST 612	Intermediate Statistical Analysis II	3
BST 619	Data Collection and Management	3
NRM 778	Mixed Methods Research II: Designing and Conducting a Mixed Methods Study	3
or HCO 728	Qualitative and Mixed Methods Research in Public Health	
<b>Select 3 Hours of Elective Courses for Health Education / Health Promotions Evaluation / Research Methods/Stats:</b>		
HB 701	Theory-Based Measurement Development	
or HB 740	Advanced Health Program Evaluation Seminar	
or HB 742	Mediation and Moderation in Behavioral Science Research	
or BST 613	Intermediate Statistical Analysis III	
or BST 626	Data Management and Reporting with SAS	

or CHHS 689	Intervention Strategies for Health Education/Promotion	
or CHHS 697	Community-Based Approaches to Evaluation and Grantsmanship of Health Education/Promotion Programs	
or EPI 607	Fundamentals of Clinical Research	
or EPI 625	Quantitative Methods in Epidemiology	
or EPR 596	Introduction to Qualitative Methods in Educational Research	
or EPR 792	Mixed Methods Approaches to Educational Research	
or HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	
or HCO 628	Qualitative and Mixed Methods Research in Public Health	
or HCO 728	Qualitative and Mixed Methods Research in Public Health	
or NRM 777	Mixed Methods Research I: Introduction to the Field	

<b>Health Education / Health Promotions Directed Research (12 hours):</b>		
HB 798/HE 702	Doctoral-Level Directed Res	Minimum 12 hours 1-9

**Qualifying Exam** Must complete 75% of didactic coursework

**Dissertation Proposal**

**Health Education / Health Promotions Dissertation Research (12 hours):** at least 2 semesters of candidacy

HB/HE 799	Doctoral Dissertation Research	Minimum 12 hours 1-9
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**Dissertation Defense**

**Minimum Credit Hours Earned for Degree:** 73

- 1 Sequenced Courses offered every other year taken in this order: HB 724, 741 (fall), 736 (spring) & HB 737 (following fall).
- 2 Joint Courses include Doctoral Seminar, Health Education / Health Promotions Electives, Advanced Research & Stats Methods Courses, Evaluation/Research Methods/Stats Electives, Directed and Dissertation Research hours.

## Health Care Organization and Policy

Requirement	Fulfilled By:
Degree Offered:	M.P.H., M.S.P.H., Dr.PH.
Department Chair:	Meredith Kilgore, Ph.D.
Phone:	(205) 934-3939
Website:	<a href="http://www.soph.uab.edu/hcop">http://www.soph.uab.edu/hcop</a>
Department Contact:	Brenda Campbell
Department Contact Email:	bcampbel@uab.edu

## Health Care Organization and Policy (Dr.P.H., M.P.H, M.S.P.H.)

### Overview:

Programs in Health Care Organization and Policy provide training and education at the master's and doctoral level. At the master's level, programs are available for those desiring a career in the analysis of health services policy or in the management of public health services resources. At the doctoral level, our program offers rigorous training in research methods and evidence-based public health practice suitable for careers in public health leadership, or academic settings. Our programs require mastering major concepts of health economics, public health management and planning, health policy, outcomes research, and health services evaluation. Master of Public Health (M.P.H.) degrees are offered in health policy, health care organization,

Maternal and Child Health policy and leadership, outcomes research, as well as coordinated degree options in business, optometry, public administration and juris doctorate. The department's Doctor of Public Health (DrPH) degree has concentrations in Public Health Management or Maternal and Child Health Policy.

## The department offers the following Masters Program options:

- MPH in Health Care Organization (also offered Online)
- MPH Fast Track (5th Year Program)
- MPH in Health Policy
- MPH in Maternal and Child Health Policy and Leadership (also offered Online)
- MSPH in Outcomes Research Online
- Coordinated MPH-JD in Public Health and Juris Doctor
- Coordinated MPH-MPA in Public Health and Public Administration
- Coordinated MSPH-PhD in Public Health and Psychology
- Coordinated MPH-MSN in Maternal and Child Health Policy

## Doctor of Public Health in Health Care Organization and Policy (DrPH)

The DrPH degree is the highest professional degree in public health. The DrPH Program in HCOP develops leaders and research faculty who have proficiency in data analysis, management, critical thinking, teaching, and translating research into policy and practice. Students will be exposed to complex practical problems facing public health practitioners and policy-makers. This program, housed within the Department of HCOP has three concentrations:

1. Health Care Organization
2. Maternal and Child Health Policy
3. Outcomes Research

## Health Care Organization and Policy Degree Competencies - Click Here

### Admissions

Requirement	Fulfilled By:
Master Program Deadline:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
DrPH Program Deadline:	April 1
GPA:	3.0
Number of Evaluation Forms Required:	Three
Entrance Tests: GRE	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>
SOPH Admissions:	<a href="http://www.soph.uab.edu/apply">www.soph.uab.edu/apply</a>

**UAB has many degree programs (both on-campus and online) that can lead to professional licensure or certification (PLC). Licensure requirements vary from state to state and by professional organization. UAB is working to develop an online, publically-accessible database, to assist in providing this state-by-state information. In the meantime, if you are interested in learning about potential professional licensure requirements in your state for a specific degree program, please contact the UAB State Authorization office at [stateauth@uab.edu](mailto:stateauth@uab.edu) or call Dr. Lisa Reburn (205) 934-3258.**

## Master in Public Health in Health Care Organization Including the MPH Fast Track Program and Online Degree Program

This program is designed for individuals who are planning on management-focused careers in public health. Perhaps you aspire to be the Executive Director of a non-profit charitable organization or a senior-level manager in a health department or federal agency. Perhaps you are a physician, nurse, pharmacist, or other clinician who wants to move from direct patient care into a supervisory position with a broad focus on the health of a community. Students in this program are introduced to the public health system and the fundamental skills necessary for practice in the public health sector and managing health care organizations. Required coursework includes basic management disciplines and selected content in economics, finance, marketing, law, and health insurance.

HCOP also offers a online MPH HCO Degree Program for Public Health and Health Care Professionals (ie Nsg, MD, SW and Public Health Employees). Qualified applicants who are unable to complete an MPH in the traditional format will be able to complete the program in three years and two summers.

### Curriculum

Students in this track must complete 44 credit hours. This includes the MPH Core, SOPH requirements, Departmental track requirements, electives and internship. Full-time students generally complete this degree in 2 years or less (4-5 semesters). Part-time students may take up to 5 years.

Requirements	Hours
<b>Core Requirements (20 hours):</b>	
BST 601 Biostatistics	4
ENH 600 Fundamentals of Environmental Health Science	3
EPI 600 Introduction to Epidemiology	3
HB 600 Social and Behavioral Sciences in Public Health	3
HCO 600 Management and Policy in Public Health Systems and Services	4
PUH 695 The Public Health Integrative Experience	3
<b>Department Track Requirements (21 hours):</b>	
HCO 601 Health Economics	3
HCO 607 Public Health Law	3
HCO 609 Needs Assessment and Program Planning, Implementation, and Evaluation	3
HCO 612 Strategic Management in Health Programs	3
or HCO 618 Management Concepts in Public Health Programs	
HCO 615 Finance for Health Professionals	3
HCO 620 Health Insurance & Managed Care	3
HCO 670 Social and Ethical Issues in Public Health	3
<b>Internship (3 hours):</b>	
HCO 697 Internship	3
<b>Total Credit Hours</b>	<b>44</b>

## Master of Public Health in Health Policy

The MPH in Health Policy is designed to train policy analysts at the master's level to work in government agencies; voluntary health

organizations; local, state, and federal legislative bodies; managed care organizations; private industry; and consulting firms. The quantitative policy analysis content emphasizes skills appropriate to an active mid-level research career. The program is designed for the individual who wants to contribute to the public discussion of health issues and policy making. The focus of training here is to give you skills in statistical and economic analysis so that you can help senior investigators write reports that recommend changes in our healthcare systems or that evaluate how well the systems work.

## Curriculum

Students in this track must complete 44 credit hours. This includes the MPH Core, SOPH requirements, Departmental track requirements, electives and internship. Full-time students generally complete this degree in 2 years or less (4-5 semesters). Part-time students may take up to 5 years.

Requirements	Hours	
<b>Core Requirements</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>Department Track Requirements</b>		
HCO 604	Health Economics and Public Health Policy	3
HCO 607	Public Health Law	3
HCO 670	Social and Ethical Issues in Public Health	3
HCO 687	Empirical Methods for Health Research	3
HCO 691	Policy Analysis: Modeling & Simulation	3
BST 619	Data Collection and Management	3
<b>Electives</b>		3
<b>Internship</b>		
HCO 697	Internship	3
<b>Total Hours</b>		<b>44</b>

## Master of Public Health in Maternal and Child Health Policy and Leadership (also offered fully online)

The MPH programs in the Maternal and Child Health concentration are designed to educate individuals who will plan, administer, and evaluate programs in maternal and child health. The programs provide information about the special problems faced by women and children, including children with special health care needs, and their families. The programs develop and integrate skills from maternal and child health, health policy and leadership and demonstrate their application in problem solving and systems development.

## Curriculum

Students in this track must complete 44 credit hours. This includes the MPH Core, SOPH requirements, Departmental track requirements, electives and internship. Full-time students generally complete this degree in 2 years or less (4-5 semesters). Part-time students may take up to 5 years.

Requirements	Hours	
<b>MPH Core Requirements (20 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>Department Requirements (9 hours):</b>		
HCO 601	Health Economics	3
HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	3
HCO 618	Management Concepts in Public Health Programs	3
<b>Concentration Requirements (6 hours):</b>		
HCO 605	Foundations of Maternal and Child Health: Programs and Policies for Women, Children, and Families	3
HCO 625	Advanced Leadership and Practice in MCH Part I - Introduction to Leadership	1
HCO 626	Adv Leadership and Practice in MCH Module II - Collaborative Leadership and Advocacy	1
HCO 627	ADV Leadership and Practice in MCH Module III - Into the Streets: Lead/Field Experience	1
<b>Internship (3 hours):</b>		
HCO 697	Internship	3
<b>Electives (6 hours):</b>		
Select 6 hours from 600-level or higher (HCO) courses.		6
<b>Total Credit Hours</b>		<b>44</b>

## (JD/MPH) Coordinated Juris Doctor / Master of Public Health Program

The department offers a coordinated Master of Public Health and Juris doctor degree program in cooperation with the Cumberland School of Law at Samford University, also located in Birmingham. The purpose of the program is to offer future attorneys exposure to the broad areas of public health.

**Admission:** Students enrolled in this program must be enrolled at the Cumberland School of Law. In order to be admitted to the coordinated programs, a student must have a GPA of 2.5 at the end of the first year of law school. A minimum law school GPA of 2.5 each semester and a minimum 3.0 GPA each term in public health are required for students to continue in the coordinated program. Interested students should contact the Office of Student and Academic Services at the School of Public Health for MPH application materials and Cumberland Law School for J.D. application materials.

**Curriculum:** Students in this track must complete 45 credit hours. This includes the MPH Core, SOPH requirements, track requirements, electives and internship. A total of 90 credit hours of coursework are required for the coordinated JD/MPH. The coordinated JD/MPH degree can be completed in 2 academic years (including 2 summers) of full-time study. Normally, 42 credit hours are required for the MPH degree, however, because of the coordinated nature of the degree, 13 credit hours from the JD curriculum are credited to the MPH and 12 hours from the MPH curriculum are credited to the JD. Students may complete the MPH totally online, in class, or through a mix of online and in class experiences. Out-of-state online students pay the same tuition rate as Alabama residents.

Requirements		Hours
<b>Core Requirements:</b>		17
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	3
PUH 695	The Public Health Integrative Experience	1
<b>SOPH Requirements:</b>		3
PUH 627	Writing & Reviewing Research for MPH Candidates	3
or GRD 727	Writing & Reviewing Research	
<b>Department Track Requirements:</b>		6
HCO 601	Health Economics	3
HCO 603	Public Health Policy	3
<b>Electives:</b>		3
<b>Internship:</b>		3
HCO 697	Internship	3
<b>Transfer of credit for the following Samford Law School courses:</b>		13
Law 502:	Torts	4
Law 506:	Contracts I	3
Law 507:	Contracts II	2
Law 526:	Business Organizations	4
<b>Total Credit Hours Earned for Degree:</b>		45

## Coordinated Master of Public Administration/Master of Public Health (MPA/MPH) Program

The MPH/MPA degree program provides students with the knowledge base of public health and the skills required to work effectively in a responsible, administrative position in the public sector. Through this coordinated degree program, students in the MPH program can satisfy some of their requirements through courses in the MPA program and vice versa.

**Admission:** Students entering this program must meet the minimum requirements for admission into the School of Public Health. The student must apply to and be admitted to both programs. The graduate School should be contacted for MPA application materials and the School of Public Health should be contacted for MPH application materials.

## Curriculum

The MPA/MPH program requires the satisfactory completion of 65 credit hours. Students must complete both MPA and MPH core requirements. Students may choose either of two program options - health policy analysis or management. It is anticipated that a full-time student can complete the dual curriculum in 2 years. Part-time students may take up to 5 years to complete their studies. This is a coordinated dual degree track and, as such, graduation from one program is contingent upon completion of all requirements for graduation from the other program. Students may complete the MPH degree program totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirements (20 hours):</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3

EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPA Core Requirements (30 hours):</b>		
MPA 600	Administrative Ethics	3
MPA 601	The Public Policymaking Process	3
MPA 602	Scope of Public Administration	3
MPA 603	Public & Nonprofit Budgeting	3
MPA 604	Human Resources Management	3
MPA 605	Information Management for Government	3
MPA 606	Foundations of PA Research	3
MBA 673	Planning and Pitching a New Business Concept	3
MPA 674	GIS for Managers	3
MPA 697	Graduate Learning Portfolio	3
<b>MPH Concentration Elective (12 hours):</b> Select 4 courses		12
HCO 604	Health Economics and Public Health Policy	
HCO 607	Public Health Law	
HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	
HCO 615	Finance for Health Professionals	
HCO 612	Strategic Management in Health Programs	
or HCO 618	Management Concepts in Public Health Programs	
HCO 620	Health Insurance & Managed Care	
HCO 670	Social and Ethical Issues in Public Health	
<b>Internship (3 hours):</b>		
HCO 697	Internship	3
<b>Total Hours</b>		<b>65</b>

## Coordinated Master of Science in Nursing / Master of Public Health in Maternal & Child Health Policy & Leadership

The coordinated MPH/MSN degree is designed to address the dynamic health care needs of women and children. This program prepares nurse practitioners to participate in the development, implementation, and evaluation of innovative maternal and child health (MCH) programs and policies. This dual degree builds on the synergy generated through two complementary curriculum tracks. In this educational experience, advanced clinical skill is combined with expertise in program planning and evaluation.

**Admissions:** Students are admitted separately to the MPH and MSN degree programs and must meet admission requirements in both the School of Public Health and the School of Nursing at UAB.

## Curriculum

Students in this track must complete 44 credit hours. This includes the MPH Core, SOPH requirements, track requirements, electives and internship. The coordinated MPH/MSN degree can be completed in 2-3 years of full-time study. Normally, a minimum of 44 credit hours are required for the MPH; however, because of the coordinated nature of the degree, 6 credit hours from the MSN curriculum are credited to the

MPH degree. Students may complete the MPH totally online, in class, or through a mix of online and in class experiences.

Requirements		Hours
<b>MPH Core Requirements (20 hours)</b>		
BST 601	Biostatistics	4
ENH 600	Fundamentals of Environmental Health Science	3
EPI 600	Introduction to Epidemiology	3
HB 600	Social and Behavioral Sciences in Public Health	3
HCO 600	Management and Policy in Public Health Systems and Services	4
PUH 695	The Public Health Integrative Experience	3
<b>MPH Focus Courses (15 hours):</b>		
HCO 604	Health Economics and Public Health Policy	3
HCO 605	Foundations of Maternal and Child Health: Programs and Policies for Women, Children, and Families	3
HCO 609	Needs Assessment and Program Planning, Implementation, and Evaluation	3
HCO 618	Management Concepts in Public Health Programs	3
HCO 625	Advanced Leadership and Practice in MCH Part I - Introduction to Leadership	1
HCO 626	Adv Leadership and Practice in MCH Module II - Collaborative Leadership and Advocacy	1
HCO 627	ADV Leadership and Practice in MCH Module III - Into the Streets: Lead/Field Experience	1
<b>Internship (3 hours):</b>		
HCO 697	Internship	3
<b>Electives shared with the School of Nursing (6 hours):</b>		
NUR 606	Translating Evidence into Practice	3
NUR 610	Health Care Systems for Advanced Nursing Practice	3
<b>Total Hours</b>		<b>44</b>

## Master of Science in Public Health in Outcomes Research Online

The health care field is placing increasing emphasis on the identification and measurement of clinical decision making and cost/utility analysis. Continuing pressure for the development and measurement of both efficient and effective protocols and health care policies is the driving force underlying this emphasis. Increasingly, employers are seeking qualified analysts to study treatment effectiveness. Graduates of this track will work in clinical settings, government agencies, managed care organizations, insurance companies, health associations, pharmaceutical firms, and consulting firms analyzing cost effectiveness, utilization and treatment effectiveness.

### Admission

The track is open to students with a bachelor's degree and strong mathematics preparation. An undergraduate grade point average of a 3.0 on a 4.0 scale and a minimum combined score of 1080 on the verbal and quantitative portions of the Graduate Record Examination General Test (GRE) is desirable for admission consideration.

Students receiving a MSPH are required to complete a 3 hour Online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

**Curriculum:** Students in this track must complete 43 credit hours. This includes the MSPH Core, Outcomes Research track requirements, electives and project research. Full-time students generally complete this degree in 2 years or less (4-5 semesters). Part-time students may take up to 5 years.

Requirements		Hours
<b>MSPH Core Requirements</b>		
BST 611Q	Intermediate Statistical Analysis I Online	3
BST 612Q	Intermediate Statistical Analysis II Online	3
EPI 610Q	Principles of Epidemiologic Research Online	4
<b>Outcomes Research Track</b>		
HCO 601Q	Health Economics Online	3
HCO 621Q	Clinical Decision Making and Cost-Effectiveness Analysis Online	3
HCO 623Q	Pharmacoeconomics and Regulation Online	3
HCO 670Q	Social & Ethical Issues in Public Health Online	3
HCO 677Q	Patient-Based/Centered Outcomes Research Online	3
HCO 687Q	Empirical Methods for Health Research Online	3
HCO 691Q	Policy Analysis Modeling and Simulation Online	3
<b>Electives</b>		
<b>Masters-Level Research</b> Minimum of 9 hours		9
HCO 699	Master's Level Project Research Health Care Organization and Policy	1-9
<b>Total Hours</b>		<b>43</b>

## Coordinated MSPH-PhD in Public Health / Doctor of Philosophy (Psychology)

The department offers coordinated Master of Science in Public Health and PhD degrees in cooperation with the department of Psychology at the University of Alabama at Birmingham or at the University of Alabama (Tuscaloosa).

### Admission

To be considered for this program, students must first be admitted to the PhD program in clinical psychology at UAB or in the PhD in psychology at the University of Alabama (Tuscaloosa). Students must meet the admission criteria for the School of Public Health and remain in good standing in their PhD program.

### Program Requirements

The MSPH degree requires a minimum of 43 hours. Students in this coordinated program will be waived from the biostatistics requirement upon documentation of successful completion of Advanced Statistics I and II in the PhD program. Students may emphasize health policy issues or outcomes research issues through 6 hours of approved electives. In addition, all students must complete a 9 credit hour research project. This is a coordinated dual degree track and, as such, graduation from one program is contingent on completion of all requirements for graduation from the other program.

Students receiving a MSPH are required to complete a 13 hour online course entitled "Overview of Public Health" by the end of their second semester. Students with prior public health education (coursework in each of the public health core disciplines) may be waived from this requirement by permission of the Associate Dean.

Requirements		Hours
<b>MSPH Core Requirements</b>		
		10

BST 611	Intermediate Statistical Analysis I	3
BST 612	Intermediate Statistical Analysis II	3
EPI 610	Principles of Epidemiologic Research	4
<b>PhD Track</b>		<b>21</b>
HCO 601	Health Economics	3
HCO 670	Social and Ethical Issues in Public Health	3
HCO 677	Patient-Based Outcomes Measurement	3
HCO 687	Empirical Methods for Health Research	3
HCO 691	Policy Analysis: Modeling & Simulation	3
HCO 721	Clinical Decision Making and Cost Effectiveness Analysis	3
HCO 722	Cost-Effectiveness Research Methods	3
<b>Electives</b>		<b>3</b>
<b>Masters-Level Research</b>	Minimum of 9 hours	<b>9</b>
HCO 699	Master's Level Project Research Health Care Organization and Policy	1-9
<b>Total Hours</b>		<b>43</b>

## Doctor of Public Health in Health Care Organization and Policy

The DrPH degree is the highest professional degree in public health. The DrPH program in the department of Health Care Organization and Policy develops leaders and research faculty who have proficiency in data analysis, management, critical thinking, teaching, and translating research into policy and practice. Students will be exposed to complex practical problems facing public health practitioners and policy-makers. This program, housed within the Department of HCOP has three concentrations (1) **Health Care Organization and Policy**, (2) Maternal and Child Health Policy, and (3) Outcomes Research.

## Curriculum

Students without an MPH (or other master's degree) must complete the master of public health prerequisite classes (HCO 600, EPI 600, ENH 600, HB 600, BST 601) prior to matriculation in the DrPH program. Students with non-MPH master's degrees (i.e. MS, MSPH, MHA, etc.), may take the concentration core courses in conjunction with any prerequisites they need. Those with a non-MPH master's degree will waive PUH 695.

A minimum of 42 credit hours, exclusive of HCO courses 793 and 796-799, are required to complete the degree. Students will complete at least 12 credit hours of analytical or methodological courses; 9 hours of DrPH core course, 9 hours of HCOP concentration courses, 12 hours of any 700-level electives (as approved by advisor). Students must also complete the doctoral seminars (HCO 796) comprehensive examination (HCO 797), practicum (HCO 793), dissertation proposal/Proposal development (HCO 798), and dissertation research (HCO 799).

Students in the **Health Care Organization and Policy** concentration will be required to meet concentration specific prerequisites (or their equivalent as determined by the program director and advisor). These credits do not count towards the total degree hours:

- HCO 604: Health Economics and Public Health Policy
- HCO 607: Public Health Law
- HCO 609: Needs Assessment and Program Planning
- HCO 670: Social & Ethical Issues in Public Health

- HCO 720: Health Insurance & Managed Care

Requirements	Hours	
<b>HCO DrPH Core Requirements (9 hours):</b>		
HCO 716	Advanced Leadership and Practice Seminar	3
HCO 717	Seminar in Public Health Policy	3
HCO 635	Writing Grants and Programming Awards in Public Health	3
<b>HCOP Concentration Core (9 hours):</b>		
HCO 706	Strategic Mgmt Theory/Research	3
HCO 715	Finance for Health Professionals	3
HCO 718	Mgt Concepts in Pub Hlth Progs	3
<b>Methods Core (12 hours):</b>		
HCO 728	Qualitative and Mixed Methods Research in Public Health	3
HCO 781	Research Methods and Study Design	3
HCO 787	Empirical Methods for Health Research	3
HCO 788	Longitudinal Meth Hlth Ser Res	3
<b>Select 12 hours of approved 700-level Electives (12 hours):</b>	<b>12</b>	
HCO 795	Directed Readings	
or HCO 701	Health Economics	
or HCO 720	Health Insurance and Managed Care	
or AH 706	Strategic Management Theory and Research	
or AH 715	Research in Organizational Theory	
or BST 725	Advances Clinical Trails	
<b>Minimum Course Credit Hours:</b> <sup>1</sup>		<b>42</b>
<b>Doctoral Seminar (2 hours):</b>		
HCO 796	Doctoral Seminar <small>minimum 2 hours</small>	1
<b>DrPH Practicum and Research (18 hours):</b> <sup>2</sup>		
HCO 793	DrPH Practicum	6
HCO 797	Directed Readings	3
HCO 798	Doctoral Level Directed Research Health Care Organization and Policy	3
HCO 799	Dissertation Research HCOP	6
<b>Minimum Hours Required for Degree (including directed readings, research, practicum and seminars)</b>		<b>62</b>

### Other Required Training: CTL Teaching Certificate UAB Mentoring Training Global Awareness and Diversity Training

- 1 All DrPH students must complete a minimum requirement of 42 hours. Successful completion of the DrPH program also includes HCO 793, HCO 796, HCO 797, HCO 798 and HCO 799 with varied credit hours as approved by advisor or program director.
- 2 DrPH Practicum, Directed Readings, Dissertation Protocol Development & Research, minimum 18 hours.

## Doctor of Public Health in Maternal and Child Health Policy

The DrPH degree is the highest professional degree in public health. The DrPH program in the department of Health Care Organization and Policy develops leaders and research faculty who have proficiency in data analysis, management, critical thinking, teaching, and translating research into policy and practice. Students will be exposed to complex practical problems facing public health practitioners and policy-makers. This program, housed within the Department of HCOP has three

concentrations (1) Health Care Organization and Policy, (2) **Maternal and Child Health Policy**, and (3) Outcomes Research.

## Curriculum

Students without an MPH (or other master's degree) must complete the master of public health prerequisite classes (HCO 600, EPI 600, ENH 600, HB 600, BST 601) prior to matriculation in the DrPH program. Students with non-MPH master's degrees (i.e. MS, MSPH, MHA, etc.), may take the concentration core courses in conjunction with any prerequisites they need. Those with a non-MPH master's degree will waive PUH 695.

A minimum of 42 credit hours, exclusive of HCO courses 793 and 796-799, are required to complete the degree. Students will complete at least 12 credit hours of analytical or methodological courses; 9 hours of DrPH core course, 9 hours of HCOP concentration courses, 12 hours of any 700-level electives (as approved by advisor). Students must also complete the doctoral seminars (HCO 796) comprehensive examination (HCO 797), practicum (HCO 793), dissertation proposal/Proposal development (HCO 798), and dissertation research (HCO 799).

Students in the **Maternal and Child Health Policy concentration** will be required to meet concentration-specific prerequisites (or their equivalent as determined by the program director and advisor). These credits do not count towards the total degree hours:

- HCO 604: Health Economics and Public Health Policy
- HCO 605: Foundations of MCH: Programs and Policies for Women, Children and Families
- HCO 609: Needs Assessment and Program Planning
- HCO 625: Adv Leadership in MCH Part I: Introduction to Leadership
- HCO 626: Adv Leadership in MCH Part II: Collab Ldrshp & Advocacy
- HCO 670: Social & Ethical Issues in Public Health

Requirements	Hours
<b>HCO DrPH Core (9 hours):</b>	
HCO 716 Advanced Leadership and Practice Seminar	3
HCO 717 Seminar in Public Health Policy	3
HCO 735 Writing Grants and Programming Awards in Public Health	3
<b>Concentration Core (9 hours):</b>	
HCO 714 Life Course Seminar	3
HCO 718 Mgt Concepts in Pub Hlth Progs	3
HCO 720 Health Insurance and Managed Care	3
<b>Methods Core (12 hours):</b>	
HCO 728 Qualitative and Mixed Methods Research in Public Health	3
HCO 781 Research Methods and Study Design	3
HCO 787 Empirical Methods for Health Research	3
HCO 788 Longitudinal Meth Hlth Ser Res	3
<b>Electives (12 hours):</b>	
HCO 708 Reproductive Health	3
HCO 729 Immigrant Health	3
HCO 772 Perinatal Hlth Issues	3
Elective Course 700 level as approved by advisor: <sup>1</sup>	3
HCO 795 Directed Readings	
or HCO 701 Health Economics	
or HCO 715 Finance for Health Professionals	
or AH 706 Strategic Management Theory and Research	

or AH 715 Research in Organizational Theory  
or BST 725 Advances Clinical Trails

<b>Doctoral Seminar (2 hours):</b>		
<b>Minimum Course Credit Hours: <sup>2</sup></b>		42
HCO 796	Doctoral Seminar <sup>minimum 2 hours</sup>	1
<b>DrPH Practicum &amp; Research (18 hours): <sup>3</sup></b>		
HCO 793	DrPH Practicum	6
HCO 797	Directed Readings	3
HCO 798	Doctoral Level Directed Research Health Care Organization and Policy	3
HCO 799	Dissertation Research HCOP	6
<b>Minimum Hours Required for Degree (including directed readings, research, practicum and seminars)</b>		62

### Other Required Training:

**CTL Teaching Certificate Date of Completion:**

**UAB Mentoring Training Date of Completion:**

**Global Awareness and Diversity training Date of Completion:**

- 1 Must be 700 level & may be selected from anywhere within the university with advisor approval.
- 2 All DrPH students must complete a minimum requirement of 42 hours. Successful completion of the DrPH program also includes HCO 793, HCO 796, HCO 797, HCO 798 and HCO 799 with varied credit hours as approved by advisor or program director.
- 3 DrPH Practicum, Directed Readings, Dissertation Protocol Development & Research, minimum 18 hours.

## Doctor of Public Health in Outcomes Research

The DrPH degree is the highest professional degree in public health. The DrPH program in the department of Health Care Organization and Policy develops leaders and research faculty who have proficiency in data analysis, management, critical thinking, teaching, and translating research into policy and practice. Students will be exposed to complex practical problems facing public health practitioners and policy-makers. This program, housed within the Department of HCOP has three concentrations (1) Health Care Organization and Policy, (2) Maternal and Child Health Policy, and (3) **Outcomes Research**.

## Curriculum

Students without an MPH (or other master's degree) must complete the master of public health prerequisite classes (HCO 600, EPI 600, ENH 600, HB 600, BST 601) prior to matriculation in the DrPH program. Students with non-MPH master's degrees (i.e. MS, MSPH, MHA, etc.), may take the concentration core courses in conjunction with any prerequisites they need. Those with a non-MPH master's degree will waive PUH 695.

A minimum of 42 credit hours, exclusive of HCO courses 793 and 796-799, are required to complete the degree. Students will complete at least 12 credit hours of analytical or methodological courses; 9 hours of DrPH core course, 9 hours of HCOP concentration courses, 12 hours of any 700-level electives (as approved by advisor). Students must also complete the doctoral seminars (HCO 796) comprehensive examination (HCO 797), practicum (HCO 793), dissertation proposal/Proposal development (HCO 798), and dissertation research (HCO 799).

Students in the **Outcomes Research concentration** will be required to meet concentration-specific prerequisites (or their equivalent as determined by the program director and advisor). These credits do not count towards the total degree hours:

- HCO 604: Health Economics and Public Health Policy
- HCO 670: Social & Ethical Issues in Public Health
- HCO 720: Health Insurance & Managed Care

Requirements	Hours
<b>HCO DrPH Core (9 hours):</b>	
HCO 716 Advanced Leadership and Practice Seminar	3
HCO 717 Seminar in Public Health Policy	3
HCO 735 Writing Grants and Programming Awards in Public Health	3
<b>Concentration Core (9 hours):</b>	
HCO 721 Clinical Decision Making and Cost Effectiveness Analysis	3
HCO 777 Patient-Based Outcomes Measures	3
HCO 791 Policy Analysis: Modeling & Simulation	3
<b>Methods Core (12 hours):</b>	
HCO 728 Qualitative and Mixed Methods Research in Public Health	3
HCO 781 Research Methods and Study Design	3
HCO 787 Empirical Methods for Health Research	3
HCO 788 Longitudinal Meth Hlth Ser Res	3
<b>Select 12 hours of any 700-level electives (as approved by advisor) (12 hours):</b> <sup>1</sup>	
HCO 795 Directed Readings	1-5
or HCO 701 Health Economics	
or HCO 715 Finance for Health Professionals	
or HCO 720 Health Insurance and Managed Care	
or AH 706 Strategic Management Theory and Research	
or AH 715 Research in Organizational Theory	
or BST 725 Advances Clinical Trails	
or NRM 774 Designs and Methods for Research of Vulnerable Populations With Health Disparities	
<b>Minimum Course Credit Hours:</b> <sup>2</sup>	42
<b>Doctoral Seminar (2 hours):</b>	
HCO 796 Doctoral Seminar (minimum of 2 hours)	1
<b>DrPH Practicum &amp; Research (minimum 18 hours):</b> <sup>3</sup>	
HCO 793 DrPH Practicum	6
HCO 797 Directed Readings	3
HCO 798 Doctoral Level Directed Research Health Care Organization and Policy	3
HCO 799 Dissertation Research HCOP	6
<b>Minimum Hours Required for Degree (including directed readings, research, practicum and seminars)</b>	62

**Other Required Training:**  
**CTL Teaching Certificate**  
**UAB Mentoring Training**  
**Global Awareness and Diversity Training**

<sup>1</sup> Must be 700 level & may be selected from anywhere within the university with advisor approval.

- All DrPH students must complete a minimum requirement of 42 hours. Successful completion of the DrPH program also includes HCO 793, HCO 796, HCO 797, HCO 798 and HCO 799 with varied credit hours as approved by advisor or program director.
- DrPH Practicum, Directed Readings, Dissertation Protocol Development & Research, minimum 18 hours.

## The Graduate School

Today's researchers, scientists, and new professionals face an increasingly competitive world. This is true not only in their fields of study, but in the "survival skills," or areas of professional presenting, university teaching, writing and publishing, interdisciplinary collaboration, and the winning of grants and fellowships. Indeed, many leading institutions view these communication abilities as prerequisites for career advancement. This is why the **UAB Graduate School's Professional Development Program** offers ongoing support for graduate students, post-doctoral fellows and faculty who want to take advantage of the school's resources to enhance their skills. The **Professional Development Program** offers graduate credit courses, seminars, day-long workshops, and free mini-workshops in a variety of areas, such as

- Mentoring & Leadership - *Certificate available*
- Teaching at the College Level - *Certificates available*
- Research Communication - *Certificate available*
- Presentation and Discussion Skills
- Diversity and Inclusion
- Critical Thinking
- Job Search

Check out the Current Class Schedule for a list of available offerings, or visit the Professional Development website for detailed information on our free mini-workshops.

## Graduate School Professional Development Program

graduate/profdev

Program director:	Dr. Kellie Carter
Phone:	(205) 975-8724
Email:	profdev@uab.edu
Website:	<a href="https://www.uab.edu/graduate/professional-development-certificate">https://www.uab.edu/graduate/professional-development-certificate</a>

### Program Information

Professional Development Program courses, seminars and workshops are offered to improve the academic and professional communication skills of graduate students, postdoctoral fellows, faculty, and staff with the goals of supporting scholarship, research integrity, productivity, effective communication, mentoring and leadership, college teaching, and the development and refinement of professional skills.

Those interested in pursuing the following graduate-level certificates through the Professional Development Program will need to follow the instructions located on the Professional Development website, <https://www.uab.edu/graduate/professional-development-certificate>

#### Graduate Certificate in Mentoring & Leadership (15 credit hours)

The **UAB Graduate Certificate in Mentoring & Leadership** is Category A certificate designed to provide instruction in mentoring and leadership theory and practice, while the student develops mentoring and leadership philosophies and a mentoring and leadership portfolio. Upon completion, the Mentoring & Leadership Certificate will appear on official UAB transcripts. For more information regarding the course requirements, visit <https://www.uab.edu/graduate/mentoring-and-leadership>.

### Graduate Certificates in College Teaching at the CIRTl Associate (5 hours) CIRTl Practitioner Level (15 hours); and CIRTl Scholar Level (21 hours)

UAB Graduate School offers certificates in College Teaching through CIRTl Center for the Integration of Research, Teaching, and Learning. CIRTl is a nation-wide consortium of universities training future faculty in the sciences. Graduate students and Postdocs at UAB can take advantage of CIRTl courses both at UAB and through the national network (<https://www.cirtl.net/>) to earn 3 levels of Certificates in College Teaching, which build upon each other

- **CIRTl Associate** This Category B foundation certificate introduces participants to effective, evidence-based teaching methods, how to write a Teaching Philosophy statement and build a professional Teaching Portfolio for the job search.
- **CIRTl Practitioner** This Category A certificate builds upon the foundation of the CIRTl Associate and comprises a total of 15 credit hours of graduate coursework including: Training in active, student-centered pedagogies of engagement; a Practicum experience in which participants are paired with expert teaching faculty; and an introduction to Teaching-As-Research. Participants choose from a wide variety of electives to complete the 15 credits. Upon completion, CIRTl Practitioner Certificate will appear on official UAB transcripts.
- **CIRTl Scholar** This Category A certificate builds upon the practical experience of the CIRTl Practitioner and comprises a total of 21 credit hours of graduate coursework. Under the guidance of a faculty mentor, participants develop and implement a Teaching-As-Research project, gather data, and present the results of their research. CIRTl Scholars have the opportunity to produce posters and develop manuscripts for publication. Upon completion, CIRTl Scholar Certificate will appear on official UAB transcripts.

### Graduate Certificate in Research Communication (12 hours)

The **UAB Graduate Certificate in Research Communication** is a collaborative effort with the College of Arts & Sciences and the Collat School of Business. This Category B certificate will help graduate students, post-doctoral fellows, faculty, and employees in science fields learn how to effectively communicate their research to other scientists and non-scientists alike. The curriculum is designed to diversify scientists' skill sets, which makes them better job candidates once they begin the search. For more information regarding course requirements, visit <http://www.uab.edu/graduate/news-and-events/671-researchcommintro>

## Admission to the Certificate Programs Registration

## Graduate Certificate in Mentoring and Leadership

Requirements	Hours
GRD 719 Introduction to Mentoring & Leadership	3
GRD 735 Leadership 101	1
GRD 713 Mentoring 101	1
<b>Choose ten (10) credit hours from the following electives:</b>	<b>10</b>
GRD 701 Presentation and Discussion Skills	
GRD 705 Teaching at the College Level and Beyond	
GRD 706 Grants and Fellowships 101	
GRD 707 Presenting Effectively	
GRD 708 Writing Successfully	
GRD 715 Preparing TAs to Be Effective Teachers	
GRD 727 Writing & Reviewing Research	
GRD 728 Professional Writing & Publishing	
GRD 730 Developing and Managing Your Professional Image	
GRD 733 Managing & Leading Teams	
GRD 734 Ethical Leadership Development	
GRD 744 Leadership Survival Skills	
GRD 746 Critical Decisions in Mentoring & Leadership	
GRD 747 Navigating the Job Market	
GRD 748 Faculty Mentoring in Higher Education	
GRD 749 Improvisational Techniques to Improve Leadership, Teaching, and Research Communication	
<b>Total Hours</b>	<b>15</b>

## Graduate Certificate in College Teaching - Practitioner

Requirements	Hours
GRD 705 Teaching at the College Level and Beyond	3
GRD 716 Developing a Teaching Portfolio	2
GRD 750 CIRTl Seminar in Teaching and Learning	1
GRD 751 CIRTl Seminar in Teaching and Learning II	1
GRD 755 CIRTl Teaching Practicum	3
<b>Elective Courses:</b>	<b>5</b>
GRD 701 Presentation and Discussion Skills	
GRD 707 Presenting Effectively	
GRD 708 Writing Successfully	
GRD 713 Mentoring 101	
GRD 719 Introduction to Mentoring & Leadership	
GRD 727 Writing & Reviewing Research	
GRD 728 Professional Writing & Publishing	
GRD 729 Writing Your Journal Article in 12 Weeks	
GRD 730 Developing and Managing Your Professional Image	
GRD 733 Managing & Leading Teams	
GRD 745 Communication and Diversity Leadership	
GRD 747 Navigating the Job Market	
GRD 749 Improvisational Techniques to Improve Leadership, Teaching, and Research Communication	
GRD 754 CIRTl Effective STEM Teaching Approaches	
GRD 766 Introduction to Online Teaching	
<b>Total Hours</b>	<b>15</b>

## Graduate Certificate in College Teaching - Scholar

Requirements	Hours
GRD 705 Teaching at the College Level and Beyond	3
GRD 716 Developing a Teaching Portfolio	2
GRD 750 CIRTL Seminar in Teaching and Learning	1
GRD 751 CIRTL Seminar in Teaching and Learning II	1
GRD 755 CIRTL Teaching Practicum	3
GRD 759 CIRTL Teaching-as-Research in STEM Courses	3
GRD 760 CIRTL Teaching-as-Research Project	3
<b>Elective Courses:</b>	<b>5</b>
GRD 701 Presentation and Discussion Skills	
GRD 707 Presenting Effectively	
GRD 708 Writing Successfully	
GRD 713 Mentoring 101	
GRD 719 Introduction to Mentoring & Leadership	
GRD 727 Writing & Reviewing Research	
GRD 728 Professional Writing & Publishing	
GRD 729 Writing Your Journal Article in 12 Weeks	
GRD 730 Developing and Managing Your Professional Image	
GRD 733 Managing & Leading Teams	
GRD 745 Communication and Diversity Leadership	
GRD 747 Navigating the Job Market	
GRD 749 Improvisational Techniques to Improve Leadership, Teaching, and Research Communication	
GRD 752 CIRTL Seminar on STEM Teaching	
GRD 753 CIRTL Seminar on STEM Academic Teaching Careers	
GRD 754 CIRTL Effective STEM Teaching Approaches	
GRD 756 CIRTL The College Classroom	
GRD 757 CIRTL Effective Use of Technology in Teaching and Learning	
GRD 758 CIRTL Diversity in the College Classroom	
GRD 761 CIRTL Special Topics	
GRD 762 CIRTL Individualized Seminar	
GRD 763 CIRTL Individualized Teaching and Learning Project	
GRD 765 CIRTL Individualized Teaching Experience II	
GRD 766 Introduction to Online Teaching	
<b>Total Hours</b>	<b>21</b>

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