



Alcorn
State University

GRADUATE CATALOG
2016-2018

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Alcorn
State University

GRADUATE CATALOG
2016-2018

"Campus of Excellence"

**Where Knowledge and
Character Matter**

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Dr. Alfred Rankins, Jr.
19th President

BOARD OF TRUSTEES OF STATE INSTITUTIONS OF HIGHER LEARNING State of Mississippi

Members with Terms Expiring May 7, 2018

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- Dr. Douglas W. Rouse.....Hattiesburg
- Mr. C. D. Smith, Jr.....Meridian

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- Mr. Chip Morgan.....Leland
- Dr. J. Walt Starr.....Columbus

Commissioner

- Dr. Glenn F. Boyce.....Madison**

GRADUATE DEGREES OFFERED

EDUCATIONAL SPECIALIST

Elementary Education

MASTER OF ARTS IN TEACHING

Elementary Education

Secondary Education

MASTER OF BUSINESS ADMINISTRATION

General Business

Gaming Management

Hospitality Management

MASTER OF SCIENCE

Agriculture

*Agricultural Economics

*Agronomy

*Animal Science

Applied Science

*Computer Systems and Networks Technology

*Electrical and Electronics Engineering Technology

*Geospatial Engineering Technology

*Homeland Security Management

*Radiological Health Science

*Technology Management

Biology

Biotechnology

Computer and Information Science

Workforce Education Leadership

MASTER OF SCIENCE IN EDUCATION

Elementary Education

*Early Childhood Education

*Reading

Secondary Education

*Agricultural

*Athletic Administration and Coaching (Non-Teaching)

*Athletic Administration and Coaching (Teaching)

*Biology

*Chemistry

*Clinical Mental Health Counseling

*English

*Music

*School Counseling

*Social Science

*Special Education

MASTER OF SCIENCE IN NURSING

Family Nurse Practitioner (FNP)

Nurse Educator (NE)

ACADEMIC ADMINISTRATION

Dr. Donzell Lee	Provost and Executive Vice President for Academic Affairs
Dr. John Igwebuikwe	Vice Provost for Academic Affairs and Student Records
Dr. Martha Ravola	Assistant Vice President for Academic Program Support
Dr. Ivory Lyles	Dean, School of A.R.E.A.S.
Dr. Babu Patlolla	Dean, School of Arts and Sciences
Dr. Donna Williams	Interim Dean, School of Business
Dr. Robert Carr	Dean, School of Education and Psychology
Dr. Debra Spring	Dean, School of Nursing
Dr. Blanche Sanders	Dean, University Libraries

GRADUATE COUNCIL

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ALCORN STATE UNIVERSITY

ACADEMIC CALENDAR

Fall 2016

AUGUST

8-12	ACT Residual & Placement Test (Over 21)
15-19	
15	Faculty/Staff Institute
17	Registration at Vicksburg (3:00 – 6:30 p.m.)
18	Registration at Natchez (9:30 a.m.)
19	Registration on Main Campus
18	Residence Halls Open to Freshmen
18-21	Freshmen Orientation
21	Dormitories Open to all Students
22	Classes Begin

SEPTEMBER

5	Labor Day Holiday
6	Last Day to Drop Courses Without Penalty
9	Last Day for Adding New Courses
9	Last Day to Register for Classes
12	Last Day for Remission of Fee Forms
21	Last Day to Drop a Course Without a Grade
	Founder's Day Convocation (10.00 a.m.)

OCTOBER

3-7	Mid-Semester Examinations
10	Posting of Grades Due in the Registrar Office by 12:00 Noon
27	Honors Day Convocation (10:00 a.m.)

NOVEMBER

- 11** University Clearance Begins
- 14** Registration for Spring 2016 Semester Begins
- 14** Last Day for Submitting Application for Degree to Registrar's Office—Undergraduate Students & Graduate Students – Graduate Office (**December 2016 Completion**)
- TBA** Graduate CORE Examination
- 16** Last Day to Drop a Course by Any Means; End WP/WF
- 16** Last Day to Withdraw from the University
- 21-25** **Fall Break for Students (NO CLASSES)**
- 24-25** **Thanksgiving Holiday (University Closed)**

DECEMBER

- 1-4** ACT Residual Test & Placement Test (Over 21)
- 5-8** **Final Examinations**
- 9** Grades Due in Registrar's Office by 12:00 Noon
- 10** Residence Halls Close
- 10** **Semester Ends**

****ALL DATES ARE SUBJECT TO CHANGE**

**ALCORN STATE UNIVERSITY ACADEMIC CALENDAR
SPRING 2017**

JANUARY	3	ACT Residual and Placement Tests (Over 21)
	4	Residence Halls Open
	4	Registration at Vicksburg (3 p.m. to 6:30 p.m.) (FULL REGISTRATION = SELECTION OF CLASSES + PAYMENT OF FEES)
	5	Registration at Natchez (9:30 a.m.) (FULL REGISTRATION = SELECTION OF CLASSES + PAYMENT OF FEES)
	6	New Student Orientation
	9	CLASSES BEGIN
	9	Registration at Lorman Campus (9:00 a.m.)
	16	MARTIN LUTHER KING HOLIDAY
	17	Drop Courses (Without Penalty)
	17	Last Day for All Registration/Adding Classes
	17	Remission of Fee Forms Due in the Business Office
	19	Drop/Add With Penalty
	27	Last Day for Submitting Application for Degree to Graduate Office— Graduate Students (May Graduation)
	27	Last Day for Submitting Application for Degree to Registrar's Office— Undergraduate Students (May Graduation)
	31	Last Day to Drop a Course Without A Grade
FEBRUARY	1	Grades of WP/WF in Effect
	10	Classes Removed for Non-Payment of Fees
MARCH	6	MID-SEMESTER EXAMINATION
	10	Posting of Mid-Semester Grades due in BANNER by 12:00 noon
	13	SPRING VACATION FOR STUDENTS
	20	Classes Resume
	22	Registration for Summer I
	23	Honors Convocation (10:00 a.m.)
	24	Last Day to Drop a Course by Any Means; End WP/WF
	31	Last Day for Placing Cap & Gown Orders
APRIL	14	Easter Break (Holiday)
	17	Classes Resume
	17	University Clearance Begins for Graduating Seniors
	18	Registration for Fall Term Begins
	21	Last Day to Officially Withdraw from the University
	24-27	Final Examinations for Graduating Seniors

MAY

- 28 Posting of Grades for Graduating Seniors in BANNER by 6:00 p.m.
- 1-4 Final Examinations for Undergraduate Students
- 5 **COMMENCEMENT**
- 5 Posting of Grades Due in BANNER by 12:00 noon
- 5 Residence Halls Close
- 5 Semester Ends
- 6 Commencement

****ALL DATES ARE SUBJECT TO CHANGE**

ALCORN STATE UNIVERSITY ACADEMIC CALENDAR Fall 2017

AUGUST	15-18	ACT Residual & Placement Test (Over 21)
	15	Faculty/Staff Institute
	16	Registration at Vicksburg (3:00 – 6:30 p.m.)
	17	Registration at Natchez (9:30 a.m.)
	18	Registration on Main Campus
	18	Residence Halls Open to Freshmen
	18-20	Freshmen Orientation
	20	Residence Halls Open to All Students
	22	Classes Begin
SEPTEMBER	4	Labor Day Holiday
	8	Last Day to Drop Courses Without Penalty
	8	Last Day for Adding New Courses
	8	Last Day to Register for Classes
	11	Last Day for Remission of Fee Forms
	22	Last Day to Drop a Course Without a Grade
OCTOBER	2-5	Mid-Semester Examinations
	6	Posting of Grades Due in the Registrar Office by 12:00 Noon
	25	Honors Day Convocation (10:00 a.m.)
NOVEMBER	10	University Clearance Begins
	13	Last Day for Submitting Application for Degree to Registrar's Office—Undergraduate Students & Graduate Students – Graduate Office (December 2015 Completion)
	13	Registration for Spring 2016 Semester Begins
	17	Last Day to Drop a Course by Any Means; End WP/WF
	17	Last Day to Withdraw from the University
	20-24	Fall Break for Students (NO CLASSES)
	23-24	Thanksgiving Holiday (UNIVERSITY CLOSED)

DECEMBER	4-8	Final Examinations
	4-8	ACT Residual Test & Placement Test (Over 21)
	8	Residence Halls Close
	8	December Commencement
	11	Posting of Grades Due in Banner by 12:00 Noon
	11	Semester Ends

****ALL DATES ARE SUBJECT TO CHANGE**

OFFICE OF GRADUATE STUDIES

**Donzell Lee, Ph.D., Provost and Executive Vice President for Academic Affairs
Walter Washington Administration/Classroom Building, Suite 519**



“Intelligence and Character, this is the true goal of education.”

WELCOME TO GRADUATE STUDY*Advancing Knowledge, Transforming Lives***That's the Alcorn Promise!**

The graduate experience at Alcorn State University is invigorating and full of scholarly challenges. The academic and research expectations of graduate students far exceed those experienced at the baccalaureate level. The hallmark of graduate studies tends to be more focused, engaged with more rigor within each chosen discipline, affianced in depth of knowledge of the literature, and fostered by independent learning. Graduate students have many opportunities to participate in diverse learning communities and exit our degree programs with an entourage of knowledge and experiences that help them take the next step in their professional careers. We are dedicated to the pursuit of scholarly attainment of our graduate students and will continue to provide them with meaningful roadmaps to success. As students continue their life-long learning for graduate or professional school, we hope they have found their educational experience for advanced study at Alcorn State University.

Planning the graduate experience as a positive event for students is a process that is encountered with enthusiasm and energy by administrative and support staff. As students explore their educational and career goals at Alcorn, we are convinced you have made the right choice to help you attain them.

GRADUATE STUDIES

Alcorn State University Office of Graduate Studies has a long history of providing quality degree programs for the adult learner on campus, off campus and through distance learning. The Office of Graduate Studies is responsible for oversight of post-baccalaureate degree programs and has been instrumental in establishing best practices at the academic level which positively impact the learning path of its students. All graduate degree programs are designed to provide advanced training in specified fields of study. Students admitted to Alcorn State University Graduate Programs must have completed a bachelor's degree, and must have maintained at least a 2.5 cumulative grade average. There are three components consistent in all graduate coursework: Writing, Research and Rigor. The ability to write is critical at the graduate level and specific safeguards are in place in each academic unit to ensure students develop good writing skills. Research is also an important component of all graduate programs to help students develop and polish best practices in research techniques and methodology. Rigor in graduate courses provide students with opportunities to investigate content with a greater depth than at the baccalaureate level and to use critical reading and higher order cognitive skills in their pursuit of knowledge of the literature in their specific disciplines.

Thus, the central purpose of the Graduate School is to provide advanced training of men and women, and the promotion of research that will contribute to knowledge in an atmosphere of freedom and inquiry. Students in the Office of Graduate Studies may work toward the Master of Science in Education, Master of Arts in Teaching, Master of Science in Agriculture, Master of Business Administration, Master of Science in Biology, Master of Science in Biotechnology, Master of Science in Computer and Information Science, Master of Science in Nursing, Master of Science in Workforce Education Leadership, and the Educational Specialist degree in Elementary Education. The graduate program is also geared to meet the professional and in-service needs of persons in agribusiness, industry and government in such agencies as the Cooperative Extension Service, the Natural Resources Conservation Service, the Rural Development Service, the Agricultural Farm Service Agency, Public Welfare, Public Health Service, and Headstart Programs.

MISSION

The mission of the Office of Graduate Studies is to provide service and support for post baccalaureate study at Alcorn State University. In fulfilling its mission, the Office of Graduate Studies assists students with admission processes, monitoring and communicating progress toward completion of degree programs, certifying completion of the degree, and accurate and efficient record keeping. The Office of Graduate Studies also assists faculty and administrators with recruiting and admission, promotion and advocacy for current degree programs, promotion and advocacy for the implementation of new degree programs.

VISION

The vision of the Office of Graduate Studies is to provide graduate programs of the highest quality which promote innovative research and creative thinking while advancing the education of students and preparing them for careers as leaders in their disciplines, research, and service.

Specific objectives of the Office of Graduate Studies are:

1. to provide a well-developed and coordinated graduate program for qualified students at the master's and specialist degree levels;
3. to develop competencies in graduate students that are essential to the successful performance of quality services in their chosen profession;
4. to upgrade the professional certification of elementary, secondary, and community/junior college teachers, and related workers;
5. to encourage and promote scholarship and scholarly research among the students and faculty members in the university community.

Graduate students must assume full responsibility for knowledge of the rules and regulations of the university and departmental requirements concerning individual degree programs. Since requirements and programs are subject to change, students at all times should be aware of current regulations.

GRADUATE COUNCIL

The Council is responsible for development, formulation, and approval of policy affecting the conduct of the graduate program. The voting membership is composed of representatives from each of the areas offering graduate degrees and/or concentrations, the Dean of the School of Arts and Sciences, the Dean of the School of Business, the Dean of the School of Education and Psychology, the Dean of the School of Agriculture and Applied Sciences, and the Dean of the School of Nursing. The Dean of the School of Graduate Studies serves as chairperson of the Council. The chairperson may vote in case of a tie among the voting members.

Delegates are chosen from graduate faculty members in each area offering graduate work and are selected to serve on the council annually. Department chairpersons of areas that are involved in graduate work and are not official delegates may sit in as non-voting members of the Council.

Among the specific responsibilities of the Graduate Council are these:

1. to determine policies of admission, retention, and re-admission to the Graduate School and all other policies related to the conduct and standards of the graduate program;
2. to approve and improve graduate curricula and programs submitted to the Council from the various departments;
3. to recommend policies related to curricular structure, academic standards, examinations, requirements for all degrees, etc.; and
4. to hear all appeals from students and faculty members concerning policies that applies to them.

GRADUATE FACULTY

A very distinct feature of the Office of Graduate Studies is its graduate faculty. Graduate faculty represent a wide array of scholarly achievements, backgrounds, interests, and expertise. They willingly share their expertise with students and the university community. Many graduate faculties are showcased throughout the United States and throughout the world for their exemplary professional and research skills. Graduate faculty set the University's intellectual tone through their teaching, scholarship, and research. Graduate Faculty germane to each degree program is published according to the School and degree program.

FACULTY APPROVAL

The policies and procedures for credentialing graduate faculty have been established to provide continuity in adhering to appropriate professional standards for graduate faculty appointment and to provide for routine monitoring of these standards by the Office of Graduate Studies and the Graduate Council. The purpose of graduate faculty criteria and credentialing is to ensure that graduate programs are supervised by faculty who are active in their own research/scholarship/creative activity. Faculty who teach graduate-level courses, advise graduate students, serve on thesis or future dissertation committees, or otherwise participate in graduate education at Alcorn State University must be members of the Graduate Faculty. Graduate faculty appointment is open to persons who meet the appointment qualifications specified in this document. Once approved, graduate faculty status must be renewed every five years.

The Assistant Vice President for Academic Program Support and Graduate Studies reviews applications for appointment and submits names with attached application and documentation to the Graduate Council for approval.

All graduate faculty appointments are recommended by the department head, affirmed by the Assistant Vice President for Academic Program Support and Graduate Studies and approved by the Graduate Council.

Graduate Faculty Eligibility

Faculty members are eligible to apply for membership if the following criteria are met:

- Hold a regular faculty appointment (tenure or tenure-track) at Alcorn State University with the rank of assistant professor or higher and;
- Possess a terminal degree (e.g., Ph.D.) appropriate to the academic unit, or equivalent qualifications; and
- Show evidence of continued research, publication, or work relevant to one's field, as recognized by colleagues inside and outside the university, and;
- Meet criteria for one of the three types of appointments: Full Member, Associate, Professional Affiliate.

Types of Appointments

Full Member

To hold and maintain a full member appointment, a faculty member must show evidence of ongoing professional activity. This evidence consists of one or more of the following activities:

- holds a terminal degree appropriate to the discipline
- must hold the title appointment of Full Professor or Associate Professor
- participates in or, upon certification of the Department Chair, will participate in graduate level instruction and advising
- provides evidence of strong research ability as demonstrated by scholarly publication or Creativity
- serve as principal advisor for a thesis committee
- Other appropriate scholarly and/or creative activities

Associate Member

All faculty members who hold an appointment at the rank of assistant professor or above are eligible to apply to be Associate Members of the Graduate Faculty. Normally, associate members do not serve on the Graduate Council; however, in the event that there is no full member of the graduate faculty in a given department, then an associate member may be eligible for consideration. Associate members are appointed for a non-specific term and are evaluated during their promotion, tenure, and/or post-tenure reviews by the department chair and dean of the academic unit.

Criteria for Selection (must meet all criteria).

- newly appointed tenure track assistant Professor with 50% of teaching assignment in graduate credit
- hold at least a 50% appointment in an academic unit or department and teach graduate courses
- serve on a thesis committee but not as the principal advisor
- possess a record of research/scholarship/creative activities; however, consideration will be given to faculty who have recently earned their terminal degree (Ph.D.) or equivalent...

Professional Affiliate

On occasion it may be important to have someone who does not meet all criteria for Full Member or Associate Member credentialing to teach a specific graduate course or serve on a specific graduate committee. Such individuals may be given the status of Professional Affiliate which is a limited appointment for a specific committee appointment or graduate level course. The length of the Professional Affiliate is dependent on the need of the specific committee or course. A Professional Affiliate would typically be a lecturer, or adjunct faculty member. The criteria applied to Professional Affiliate are as follows:

- individual does not have appointment in an academic unit or program at Alcorn State University
- visiting scholar and or artist in residence
- must be nominated by the Department Chair for a specified

The Nomination Process

Nominations to the graduate faculty begin at the academic unit level. Academic department chairs initiate the nomination process and must provide a detailed justification for each candidate, which must be endorsed by the respective unit dean. The criteria for the type of appointment should be strictly adhered to in recommending a faculty member or advising a faculty member interested in becoming a graduate faculty member. The level of scholarship, research and quality of the applicant's accomplishments activity should be the primary considerations for appointment to the Graduate Faculty. Each discipline or academic unit has the responsibility to provide the Graduate Council with an assessment of how each applicant fulfills the specific criteria for becoming a graduate faculty member.

Only tenured or tenure-track faculty members with the appropriate terminal degree at the assistant professor level or above are eligible for full member appointment. Additionally, regular members may serve on the Graduate Council.

Permission for Non-Graduate Faculty to Teach Graduate Courses at Alcorn State

In special cases, the Graduate School gives individuals who are not members of the Graduate Faculty at Alcorn State permission to teach graduate courses. The Department Chair or Academic Unit Dean submits these requests to the Assistant Vice President for Academic Support and Graduate Studies. The Request for Non-Graduate Faculty to Teach Graduate Courses must include the proposed instructor's curriculum vitae. Approval by the Assistant Vice President for Academic Program Support and Graduate Studies is based on the proposed instructor's credentials being at least equivalent to those of members of the Graduate Faculty who ordinarily teach the course. The request should be submitted to the Assistant Vice President for Academic Support and Graduate Studies at least 30 working days prior to the first day of the first term involved.

Length of Membership Appointment

Appointment of new members to the Graduate Faculty is as follows:

Full Member	5 years
Associate Member	3 years
Professional Affiliate	1 year

At the end of the membership term, the member must be re-nominated and reviewed again. The intent is to review the faculty member's recent scholarly productivity, going back as far as 5 years in the case of more senior faculty and 3 years in the case of less experienced faculty. A Graduate Faculty member who is being

considered for continued appointment is expected to show evidence of ongoing research and creative activity since the last review.

Responsibilities and Privileges as Graduate Faculty

Members of the Graduate Faculty, as indicated in the Graduate Studies Policy and Procedures Manual, can chair all graduate committees, direct master's thesis, teach 500-level and above courses, serve as representatives of the Assistant Vice President for Academic Program Support and Graduate Studies, serve on educational specialists' exams. Members' service may deal with a specific subset of these responsibilities, relevant to a member's experience, as requested by the department head through the relevant academic dean.

Responsibilities and Privileges of Graduate Faculty members include:

- Vote for faculty appointment on the Graduate Council and in graduate faculty referenda
- Serve on the Graduate Council if elected by the Graduate Faculty within the respective academic unit or appointed by the Provost;
- Vote within the academic unit on graduate program matters including awarding graduate degrees;
- Teach graduate level courses for graduate credit;
- Advise graduate students;
- Serve on supervisory and examining committees for graduate students and other guidance and evaluation committees;
- Direct master's theses
- and, with appropriate approval, serve as mentors and role models and Advisers for other scholarly projects.

Procedure for Applying for Appointment

An application for appointment on the Graduate Faculty originates with the faculty of an academic unit and is submitted to the Assistant Vice President for Academic Program Support and Graduate Studies through the Dean or Department Chair of the unit. The graduate Council reviews and takes action on each application. To apply for appointment, download an application from the Graduate Studies website.

The following process will be used to apply for Graduate Faculty appointment:

- a. Submit an application form for appointment and a full current vita to the academic unit department chair. Other supporting credentials may accompany the application.
- b. The application must be voted on by at least three faculty in the department in which the graduate faculty appointment is being sought who hold the same or higher graduate faculty credentialing status as that being sought. If there are fewer than three qualified faculty, qualified faculty from a related department should be asked to review the application. The decision as to which faculty outside the department should participate must be a joint decision between the department chair and college dean. The vote of the reviewing faculty will be recorded on the candidate's application.
- c. The department chair will make a recommendation to the academic dean, who will then submit a recommendation to the Assistant Vice President for Academic Program Support and Graduate Studies.

Application and supporting credentials should be forwarded to the Office of Graduate Studies Assistant Vice President for Academic Program Support and Graduate Studies and signed by the Department Chair and Academic Unit Dean.

- d. The Assistant Vice President for Academic Program Support and Graduate Studies reviews application and credentials and makes request for any additional credentials or documentation to support the application. The Graduate Council will be convened and all completed applications will be presented.
- e. **Final Decision**
All appointment decisions will be approved by the Graduate Council and will become his final decision of the governing body.
Applications for Professional Affiliate as well as any application made on an emergency basis (e.g., need to make a last-minute substitution on a committee) may be made by the Assistant Vice President for Academic Program Support and Graduate Studies without review by the Graduate Council.

Notification of Appointment

The decision of the appointment of an applicant will be communicated within three business days following the decision of the Graduate Council. If the application is denied, the Assistant Vice President for Academic Program Support and Graduate Studies will forward comments concerning the denial to the Dean/Department Chair and the applicant. The applicant may present additional documentation to the Graduate Council for reconsideration of the application.

GRADUATE STUDIES WEBPAGE

The Office of Graduate Studies' website is designed to serve as a communication hub for prospective and currently enrolled students, as well as for the university community. Information is constantly updated to inform customers about noteworthy graduate news, policies and procedures, admission requirements and updates, progress to graduation announcements and information, and garner feedback to improve efficiency and effectiveness of operations and academic programs. The site is maintained as a service and the links give students a user-friendly mechanism for accessing important information about graduate business on an ongoing basis. Thus, supporting the mission of the Office of Graduate Studies to promote excellence in all aspects of graduate education. To access the website, visit www.alcorn.edu/academics/graduate.



**“Do not follow where the path might lead.
Go instead where there is no path and leave a trail.”**

GENERAL INFORMATION

HISTORY OF THE UNIVERSITY

Alcorn State University was created by an act of the Mississippi State Legislature on May 13, 1871. First named Alcorn University of Mississippi in honor of James L. Alcorn, who was then governor of the state of Mississippi, the institution was heralded as a “seminary of learning.”

The institution has a rich and illustrious history. It is located on the site of the former Oakland College, a Presbyterian school for the education of white males. Oakland College closed its doors at the beginning of the Civil War so that its students might answer the “call to arms.” Upon failing to reopen after the war, the state purchased the college for the education of its “Negro citizens.” The Honorable Hiram R. Revels, the first black man to serve in the United States Senate, resigned his seat in the U.S. Senate in 1871 to become the first president of the newly established institution.

The university was given \$50,000 per year for 10 years (the same as the University of Mississippi). Alcorn State University also received three-fifths of the proceeds from the sale of agricultural scrip under the provisions of the First Morrill-Land Grant Act of 1862. According to the *1872 Alcorn University Catalogue*, “the fund amounted to \$189,000, three-fifths of which, or \$113,400, became the property of Alcorn University, the income from which is to be devoted to the agricultural and mechanical department of the institution.” Thus, from its beginning, Alcorn State University has been a land-grant institution.

In 1878, the Mississippi State Legislature changed the name of the institution to Alcorn Agricultural and Mechanical College with the enactment of the following legislation:

LAWS OF MISSISSIPPI

Chapter XIX, SECTION 1. Be it enacted by the Legislature of the State of Mississippi, that the institution known as Alcorn University is hereby established as, and declared to be, an agricultural college for the education of the Negro youth of the State and to be hereafter known as the Alcorn Agricultural and Mechanical College of the State of Mississippi.

SECTION 9. Be it further enacted, that each of said Boards of Trustees shall possess all the power necessary and proper for the accomplishment of the trusts reposed in them viz.: The establishment and maintenance of a first class institution at which the youth of the State of Mississippi may acquire a common school education and a scientific and practical knowledge of agriculture, horticulture, and the mechanical arts, also in the proper growth and care of stock, without, however, excluding scientific and classical studies, including military tactics.

Alcorn State University’s land-grant status was re-affirmed in 1890, when the state of Mississippi accepted provisions of the 1890 Morrill Act specifically providing for the establishment of separate land-grant institutions of higher education. Hence, although created under the 1862 Morrill Act, Alcorn State University is often referred to as an 1890 land-grant institution.

Recognizing the tremendous growth and impact of the institution during its more than one century of existence, the Mississippi State Legislature changed the name of the institution to Alcorn State University in 1974.

Today, Alcorn State University is an equal opportunity institution. It admits students without regard to age, race, creed, color, national origin, religion, gender, or physical disabilities. The institution is both international and cosmopolitan. It has attracted students from 82 counties in the state of Mississippi, 42 states, and 18 foreign countries.

ASSURANCE OF COMPLIANCE

On January 23, 1965, the president of the university signed, with the approval of the Board of Trustees of Institutions of Higher Learning of the State of Mississippi the “Assurance of Compliance with the Department of Health, Education, and Welfare Regulation under Title VI of the Civil Rights Act of 1964.”

The following statement indicates the commitment of the university: “Alcorn State University HEREBY AGREES THAT it will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to the Regulation of the Department of Health, Education, and Welfare (45 CFR Part 80) issued pursuant to that title, to the end that, in accordance with Title VI of that Act and the regulations, no person in the United States shall, on the ground of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Applicant receives Federal financial assistance from the Department, and HEREBY GIVES ASSURANCE THAT it will immediately take any measures necessary to effectuate this agreement.”

MISSION OF THE UNIVERSITY

Alcorn State University, a historically Black College and University, is a comprehensive land-grant institution that celebrates a rich heritage with a diverse student and faculty population. The University emphasizes intellectual development and lifelong learning through the integration of diverse pedagogies, applied and basic research, cultural and professional programs, public service and outreach while providing access to globally competitive academic and research programs. Alcorn strives to prepare graduates who will be well-rounded future leaders of high character who will be competitive in the global marketplace of the 21st century.

VISION OF THE UNIVERSITY

Alcorn State University will become the premier comprehensive land-grant university that develops diverse students into globally-competitive leaders and applies scientific research through collaborative partnerships, which benefit the surrounding communities, state, nation and world.

UNIVERSITY GOALS

Student-centered. Continue to offer students an engaging, transformative learning and living environment, empowering them to become globally competitive, socially and environmentally sensitive, and technologically competent leaders.

Academic Excellence. Consistently enhance its academic excellence and become nationally recognized as a premier comprehensive land grant university offering engaging intellectual experiences and collaborative research opportunities.

Shared governance and Professionalism. Assess its processes to ensure that honest and transparent communications, merit-based systems, and accountability prevail.

Enhancement of Infrastructure and Technology. Develop and implement a strategy to ensure that the technology and infrastructure exist to achieve the University’s vision and mission.

Enhancement and Diversification of Resources. Enhance its resources and diversify the sources of funding through partnerships, creative fundraising strategies, leveraging its intellectual property, and entrepreneurship.

Diversity. Engage all stakeholders in developing an environment which embraces diversity of thought and encourages the acceptance of differences.

Community Outreach and Engagement. Strengthen its community outreach and engagement efforts by encouraging continuing education, expanding community partnerships, and developing new service and outreach programs.

ACCREDITATION AND AFFILIATIONS

Alcorn State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award the Associate, Bachelor's, Master's, and Specialist in Education degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Alcorn State University.

Alcorn's teacher education program is accredited by the National Council for the Accreditation of Teacher Education. The Bachelor of Science in Nutrition and Dietetics is accredited by the American Dietetic Association. The Associate of Science in Nursing degree, the Bachelor of Science in Nursing degree, and the Master of Science in Nursing degree programs are accredited by the National League for Nursing Accrediting Commission. Alcorn State University is an accredited institutional member of the National Association of Schools of Music, the National Association of Industrial Technology and the American Association of Family and Consumer Sciences.

The university also holds membership in the following organizations: National Association of College and University Business Officers; American Association of Colleges for Teacher Education; American Council on Education; Association of American Colleges; Association of State Colleges and Universities; Family & Consumer Sciences Association; American Library Association; American Public Relations Association; College Language Association; Council for the Advancement and Support of Education; Council on Co-op College Projects; National Association for Business Teacher Education; National Association of Dramatic and Speech Arts; National Association of State Universities and Land Grant Colleges; National Collegiate Athletic Association; National Collegiate Honors Council; National Commission on Accrediting; the Southern Association of College Registrars; the Association of Departments of English; Association of Institutional Research; Mathematical Association of America; the Association to Advance Collegiate Schools of Business-International; the Society for College and University Planning; Southern Regional Honors Council; and the Southern Association of College and University Business Officers.

CAMPUS SAFETY CENTER

The Alcorn State University Campus Safety Center and Fire Department are open 24 hours a day, seven days a week. They strive to make the Alcorn State University campus as safe and as secure as possible. This is the students' home away from home and it's the job of the Alcorn State University Campus Safety Center and Fire Department to serve and protect students during their stay at Alcorn.

CLASS ATTENDANCE REGULATIONS

Regular and punctual class attendance is required of all students enrolled at Alcorn State University. Class attendance regulations apply to all types of classes (e.g., lecture, laboratory, or practicum) as well as to all modes of instruction (e.g., face-to-face or online). Instructors record absences as they occur. Instructors and departments may set individual policies that operate within the parameters set by the university. Instructors will clearly delineate individual policies in course syllabi distributed to each student during the first week of class. Students must present official documentation for an excuse to the instructor, who will make the decision on the classification and acceptability of the excuse. Disagreements as to acceptable excuses are adjudicated by the Dean of the School.

75% Minimum

No matter how justifiable the circumstances for class absences, students must attend a minimum of 75% of the meetings for a given course in order to be eligible to receive a passing grade. If a student accumulates absences in a course in excess of 25% of the scheduled class meetings for a semester or summer session and does not officially withdraw from the course, he/she receives the grade of "F" in that course unless the circumstances are deemed extenuating by the Provost. Except for absences incurred while representing the university in a required university event (see below), excused absences are counted as absences when computing the 75% minimum.

Excused Absences

Absences documented by official sources (i.e. medical or death of family member) are excused. Excused absences are counted as absences when computing the 75% minimum. An excused absence allows the student to make up the work and receive a grade for that work if the work is completed within two weeks after the absence. The student is responsible for obtaining assignments, scheduling make-up work, and submitting assignments to the instructor within the two-week period after the absence. Periods of absence in excess of one week must be approved and excused by the Office of the Provost.

Unexcused Absences

Students are allowed one hour of unexcused absence for each semester hour of a course. Instructors may, at their discretion, set class policies that lower grades for unexcused absences incurred above the number of unexcused absences allowed.

Excessive Absences

Instructors should report student absences on Banner Online Attendance. The university reserves the right to withdraw a student who has missed more than 25% of the scheduled class meetings, and instructors are encouraged to submit names of students with excessive absences to the Office of Academic Affairs. Whenever students miss classes, they should work directly with their instructors to make up work. Students are not relieved of responsibilities to meet all course requirements and complete all class assignments. Students who do not attend within the first two weeks of class are reported to the Office of Academic Affairs for financial aid reporting. See Non-Attendance No Show Purged Form section below.

Late Registration and Financial Aid

Students should begin attending class on the first day of the semester whether or not registration is complete. Once the Office of the Registrar completes registration and declares the rolls finalized, no student whose name is not on the official roll will be allowed in class.

Non-Attendance No Show Purged Form

Students who complete the registration process are required to attend class before receiving Federal Student Aid. Those not attending class before the deadline will be deleted from the rolls as a No-Show for non-attendance. To be reinstated on the roll, the student must attend class and present to the instructor the Non-Attendance Form for the instructor's verification of attendance. Students should print out one Non-Attendance Form for each class of non-attendance. Students must then submit the signed form to Office of Academic Affairs. Applicable forms, further instructions, and information about deadlines are available at the Financial Aid Forms webpage.

Tardiness

Instructors may, at their discretion, set policies that consider students absent when they arrive very late to or depart very early from class. All such policies must be approved by the chairperson of the department and maintained on record in the department.

DRUG-FREE WORKPLACE POLICY

It is the policy of Alcorn State University to maintain a drug-free workplace, workforce, and campus consistent with federal laws as set forth in the Drug-Free Workplace Act of 1988 and the Department of Defense Drug-Free

Workforce Rule of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989. The university acknowledges and supports the laws of the State of Mississippi code of 1972 (1988 supp.) that prohibit the sale, distribution, manufacturing, possession or use of controlled substances in the state.

FINANCIAL AID

Graduate students pursuing a Master's Degree can receive financial assistance for up to 63 credit hours. Students will be limited to 95 credit hours when pursuing a second Master's degree. Graduate students must also adhere to the Quantitative and Qualitative measures. Once a student earns a second Master's degree, he/she shall be eligible to receive financial assistance only toward a Specialist Degree. The Office of Financial Aid mirrors the academic standards process for satisfactory academic progress for graduate students.

Satisfactory Academic Progress is monitored at the end of each academic year. Three probationary semesters are allowed during a student's graduate career. Those who fail to meet the Satisfactory Academic Progress requirements at the end of a probationary semester will be placed on financial aid suspension and will lose eligibility to receive financial aid funds. If suspended from financial aid, an appeal must be submitted to the Financial Aid Office to be reviewed by the appeals committee for reinstatement.

Students expecting to receive financial aid must submit all required financial aid documents to the Financial Aid Office. Once information received and reviewed, eligibility will be determined. If eligible to receive financial assistance, an award letter will be mailed, emailed or uploaded through Banner Online Services. Any difference in the amount awarded and the amount needed to complete the registration process must be paid before completing the registration process. Previous balances must be paid in full at the time of registration.

PREFERRED DATE FOR SUBMITTING APPLICATIONS FOR FINANCIAL AID

The priority deadline date for submitting applications (ASU Application and FAFSA) for Financial Aid is April 1st.

In order to finalize any financial aid, a student must file an application for admission and be accepted by the university. The financial aid application is not considered as an application for admission.

DIRECT STAFFORD LOAN PROGRAMS

This program enables students to borrow directly from the U.S Department of Education that is willing to make the loans to students in order to finance educational expenses.

Stafford loans are either subsidized or unsubsidized. A subsidized loan is awarded on the basis of financial need. The federal government pays interest on the loan until the student begins repayment and during authorized periods of deferment.

Unsubsidized loans are not awarded on the basis of need. Borrowers are charged interest from the time the loan is disbursed until it is paid in full. If the borrower allows the interest to accumulate, it will be capitalized. If the borrower chooses to pay the interest as it accumulates, he/she will repay less in the long run.

Students may apply for a Direct Loan if they have been accepted as, at least, half-time students. Students who are already enrolled may apply if they are in good standing and making satisfactory academic progress.

The maximum a graduate student is eligible to borrow each academic year is \$20,500.00 (at least \$12,000 of this amount must be in unsubsidized Stafford loans).

The interest rate for direct subsidized and unsubsidized loans could change each year of repayment, but by law, it will never exceed 8.25 percent. An origination fee up to 2.5 percent of the total loan will be assessed on each loan.

The loan must be repaid. After the student graduates, leaves school, or drops below half-time enrollment, there is a six-month grace period before the borrower begins repayment.

REFUND POLICY

Students who withdraw from the university in good standing are entitled to a refund of all fees (except registration) according to the following schedule:

First official day of class	90%
Between second day and two weeks	80%
Between two and four weeks	60%
Between four and six weeks	40%
After six weeks	No Refund

Students who withdraw unofficially and return weeks or months later to officially withdraw and claim refunds are not entitled to refunds.

FOOD SERVICES

All students living in university residence halls are expected to take their meals in the Clinton Bristow, Jr. Dining Hall. Meals are served cafeteria style. Students obtain permission to eat in the cafeteria by paying board fees in advance. Sandwiches, beverages, and short orders are served in the James L. Bolden Campus Union Building.

Food services for the Natchez Campus are available by agreement at the Copiah-Lincoln Community College facility located across the street from the ASU Natchez campus. Costs vary depending on items selected from the menu.

GRADUATE STUDENT ASSOCIATION

Graduate student involvement is a vital part of the structure of services, academic offerings and activities in Graduate Studies. Students meet to promote a graduate agenda for excellence on a monthly basis.

The association is available to graduate students who are currently enrolled in graduate programs at Alcorn State University. The purposes of the Graduate Student Association are as follow:

- To provide support and services to graduate students.
- To provide an opportunity for communication, exchange, and the exchange of ideas among graduate students, faculty, and university administration.
- To network with other Graduate Student Associations locally and nationally on issues and concerns they are facing.

HEALTH AND DISABILITY SERVICES

The Department of Health and Disability Services is located in the Felix H. Dunn Health Services Center. The telephone number is 601-877-6460. It serves as the primary health care facility on the main campus offering professional services for all Alcorn State University students, faculty and staff.

Students who need disability accommodations should submit an application packet with supporting documentation from a qualified professional to the Director of Health and Disability Services. Upon careful review of the documentation and discussion with the student, the Director of Health and Disability Services will arrange reasonable physical and academic accommodations.

HOURS OF OPERATION

The Department of Health and Disability Services hours of operations are:

Monday – Thursday 8:00 a.m. – 5:00 p.m.

Friday 8:00 a.m. – 4:00 p.m.

After Hours/Emergency Care: In case of emergency please contact Campus Police/Ambulance Services at 601-877-3000 or Dial 911.

HOUSING AND RESIDENCE LIFE

The mission of the Alcorn State University Department of Residence Life/Housing is to provide “a home away from home” where students can be safe and comfortable on campus. Part of the residence hall experience is learning to live, fellowship, socialize and interact with other people from different racial, ethnic and economic backgrounds. To this end, students are guided to develop a growing sense of maturity and responsibility by participating in residence hall activities. By doing so, the students are intellectually stimulated to think critically solve problems and maintain an atmosphere conducive to academic pursuits and college life.

Housing will be available for graduate students in modern air conditioned dormitories. Limited facilities are available for married students with or without children. Housing for the graduate student is available on the Main Campus and the Natchez Campus. Persons interested in housing facilities should contact the Office of Residence Life, Alcorn State University, and Alcorn State, MS 39096.

A non-refundable \$125.00 application fee is required before the application can be processed.

Regulations Regarding Married Students

Married students who reside in residence halls are subject to the same standards of conduct and living that govern the life and activity of other resident students.

Residents are expected to respond appropriately to the reasonable requests of other residents and Residence Life staff. Residents will respect the rights of other residents, and each resident is responsible and held accountable for his or her behaviors, as well as for the behavior of his/her guests(s).

ELIGIBILITY REQUIREMENTS FOR HOUSING

All Alcorn State University students enrolled full-time (9-12 credit hours Graduate in good standing with the University), are eligible for on-campus housing. Students must present PROOF of completed registration for clearance to check into assigned residence hall.

POST OFFICE

There is no general delivery. Students may purchase a mailbox (contact the Post Office at 601-877-6334 for mailbox rental fees) or use his or her residence hall address. Mail is delivered to boxes daily at 10:00 a.m. Postal money orders are sold from 8:00 a.m. to 2:00 p.m. The mail comes on Monday through Saturday at 8:30 a.m. Outgoing mail departs at 3:00 p.m. The hours of operation are Monday–Friday 8:00 am - 4:00 pm and Saturday 8:00 am - 10:00 am., Lorman, Mississippi 39096. All the mail that is addressed to the university is distributed through the local Branch Post Office on campus. Mail arriving to the university should be addressed: Alcorn State University, Post Office Boxes or to the desired dormitories, Alcorn State University, Alcorn State, Mississippi 39096-7500. All express mail should be addressed to the correct box or dormitory at Alcorn State University, Alcorn State, Mississippi 39096-7500. It is very important that mail with box numbers 1-900 use Alcorn State University after the box number.

PUBLIC RADIO STATION (WPRL)

WPRL, 91.7 FM your trusted source for news, sports, talk, music and entertainment, is a 3000 watt CPB-qualified public radio station broadcasting on the campus of Alcorn State University to the surrounding communities as a service of the university. WPRL's mission is to engage, educate, and entertain by creating and providing innovative, outstanding programming fueled by intellectual and cultural diversity. WPRL is a member of National Public Radio, an affiliate of Public Radio International and the Associated Press. It provides educational and entertainment programming for the general audience as well as opportunities for students, faculty, staff, and community members to learn practical broadcasting skills as volunteers and interns.

REGISTRATION OF MOTOR VEHICLES

Each person who operates a vehicle on campus must be registered with the Office of Parking Services. Each vehicle must have a valid, properly displayed parking permit. Parking citations are issued for violations, including having no valid permit, and are payable at the Office of Parking Services. The online module for parking rules, registration for parking permits, and payments for citations can be accessed at www.alcorn.edu/parking.

The Campus Safety Center Office will have unregistered cars towed from the university property by a local wrecker service at the owner's expense. This department may also use a device known as a wheel-lock for vehicles that have not been registered or for vehicles that are in violation of some or all traffic regulations.

SEXUAL HARASSMENT

Alcorn State University officials provide a workplace free from sexual harassment. The University assures all students that it maintains an atmosphere characterized by respect for others. Policies published in the *Student Handbook* clearly state the university's position on Sexual Harassment. Sexual harassment may consist of requests for sexual favors, unwelcome sexual advances, threats, actual bodily contact or other deliberate verbal or physical conduct of a sexual nature. Such behavior is discouraged between all employees as well as students.

Sexual harassment is especially forbidden where the offending employee is in a position to affect the compensation or employment status of the person being harassed. In all cases, Alcorn State University officials shall take prompt and appropriate corrective action. This rule applies equally to sexual harassment of both men and women. These definitions apply to students as well as to employees who may have a complaint of sexual harassment.

Such behavior listed below can be considered inappropriate and grounds for sexual harassment.

1. Subtle pressure for sexual activity
2. Verbal harassment or abuse of a sexual nature
3. Sexist remarks about a person's clothing, body or sexual activities
4. Demanding sexual favors accompanied by implied or overt threats concerning one's job, grades, recommendations, etc.
5. Inappropriate display or dissemination of sexually suggestive or pornographic materials.

If an individual believes he or she has been subjected to any form of sexual harassment, this should be reported to the Office of Human Resources at Alcorn State University.

STUDENT AFFAIRS

The Division of Student Affairs is an integral part of our students' educational process and offers programs and services that assist students in achieving their potential at Alcorn State University. The administration, educators, advisors and student advocates strive to provide an environment that holistically promotes a diverse student population, personal growth, leadership development, social responsibility, student empowerment and student engagement activities.

The mission of Student Affairs is to give students the tools, advice and information they need to be successful in their years at Alcorn. Personnel are available to help students new to the campus navigate the University's resources and campuses, learn about university life, and realize the true spirit of being an Alcornite.

STUDENT COUNSELING SERVICES

The Office of Counseling and Testing provides services for students and staff of the university community which include:

1. academic, personal, and social adjustment;
2. career counseling;
3. customer service assessment, testing and training; and
4. counseling referral services.

Where is the Counseling Center Located?

Walter Washington Administration/Classroom Building (WWACB)
3rd Floor Room #305

Whom Do We Serve?

Enrolled ASU Students

How Do I Make an Appointment?

To make an appointment, call 601-877-6230 or come to **Room 305– WWACB**. Walk-ins are welcomed.

What Services Do We Offer?

- Individual Counseling
- Group Counseling
- Testing Services
- Attendance Monitoring
- Withdrawal Requests
- Consultation/Referrals
- Outreach Programs

What is the Cost?

There are no charges for counseling services provide by ASU Counseling and Testing Center. However, if referrals are made to outside agencies, you are responsible for any fees incurred from those agencies.

What about Confidentiality?

Students are assured of confidentiality in accordance with ethical and legal standards set by the American Psychological Association. Each Counseling and Testing staff must sign a Confidentiality Agreement. For additional information, please go to Alcorn Home page, click on Discover Alcorn, then Administrative Offices and search for Counseling and Testing Services.

STUDENT PLACEMENT SERVICES

The Office of Placement Services assists 1) students in career planning, 2) enrollees in obtaining employment in jobs for which they are qualified, and 3) presently employed graduates in making desired changes. These services are provided cost-free to students and alumni. Graduates are placed in business, industry, government, education, and other professional areas.

These services include: 1) service to the student –by scheduling interviews with employers, counseling, securing job listings, providing occupational literature on career opportunities, consulting with professional staff and employers, and maintaining and reproducing credentials, 2) service to the employer—by making employers’ needs known to the students and alumni, by enabling them to visit and interview qualified applicants and to make contact with the professors and other university personnel, by keeping them informed of changes in educational and degree programs, and by helping them gain a deeper insight into the placement process through professional organizations; and 3) service to the institution—by establishing a source of accurate and timely information on economic and industrial market trends, by providing information concerning the effectiveness of the curriculum as it relates to specific career areas, by representing the institution to many professional arenas such as business, industry, government, medicine, and education.

UNIVERSITY BOOKSTORE

The bookstore serves the needs of the University community by providing textbooks, school supplies, novelties, toiletries, and an assortment of other items. Students can pay with cash, check, bankcard, or they can charge purchases to their Alcorn State University Gold Card (ID). Students may use this charge privilege throughout the year to purchase anything in the bookstore. These charges appear on the student’s Gold Card account. The operating schedule for the bookstore is:

- Monday – Thursday 9:00 am - 5:00 pm
- Friday 9:00 am - 4:00 pm

UNIVERSITY LIBRARIES

The university library serves as the cornerstone of education at Alcorn State University. It provides services and resources essential to the instructional, research, and public service needs of the university. Renovated and expanded in 2000, the J. D. Boyd Library is a state-of-the-art facility designed to accommodate 1000 users and hold 500,000 volumes.

It contains a thirty-station computer laboratory, a media center with a video classroom, group study rooms, an archival and special collections room and a 140 seat auditorium. Reading and study areas wired for computer access are available on the first and second floors. Administrative offices, as well as circulation, reference, serials, government documents, computer lab, microform area, and technical services facilities are located on the main

level. This expansive open area provides easy access to all major reference services. The media center, video classroom, archives, and special collections are located on the second floor. The ground floor contains the shipping and receiving area, storage rooms, computer office, faculty/staff professional development center, and a staff lounge. Carrels, tables, and informal seating are interspersed throughout the spacious facility to provide an atmosphere conducive to the learning process.

WITHDRAWAL FROM CLASSES AND/OR THE UNIVERSITY

Any student who desires to withdraw from the university must adhere to the Satisfactory Academic Progression (SAP) policy. (Please review the SAP policy at www.alcorn.edu/FinAid/SAPPolicy.htm. Also, if a student withdraws from ALL courses before more than 60% of the time has elapsed in the semester, it will be determined if he/she —earned all financial aid received from federal programs. If the student did not earn the aforementioned aid, he/she will be informed of the amount that must be repaid and of the options for repayment. The student must submit an application for readmission if he/she plans to re-enroll.

Students must also process the appropriate —Statement of Clearance issued by the Office of the Vice President for Student Affairs if living in the dormitory. Failure to comply with this regulation will result in the recording of failing grades in all courses for which the student is registered and the losing of any refund of fees to which he/she may otherwise be entitled.

Communication with Graduate Studies and the University

Office of Graduate Studies
1000 ASU Drive #689, Suite 519
Lorman, MS 39096

Phone: (601) 877-6122
Fax: (601) 877-6995
Email: graduatestudies@alcorn.edu

Administration

The Office of the President provides oversight of university businesses and financial operations, policies, executive actions, undergraduate and graduate professional education, teaching and research functions of the University.

Contact Information:

President Alfred Rankins Jr

Web: www.alcorn.edu/discover-alcorn/president
Phone: 601-877-6111
Email: president@alcorn.edu

Academic Affairs

The Office of Academic Affairs coordinates the undergraduate and graduate academic resources, support, advocacy, and access through relationships that empower students across the disciplines.

Contact Information:

Dr. Donzell Lee, Provost and Executive Vice President for Academic Affairs

Web: www.alcorn.edu/academics
Phone: 601-877-6140
Email: dlee@alcorn.edu

Contact Information:

Dr. John Igwebuike, Vice Provost for Academic Affairs and Student Records

Web: www.alcorn.edu/academics
Phone: 601-877-6147
Email: jjgwe@alcorn.edu

Contact Information:

Dr. Martha Ravola, Assistant Vice President for Academic Support

Web: www.alcorn.edu/academics
Phone: 601-877-3920
Email: mravola@alcorn.edu

Business Affairs

The Office of Finance and Administration supports the instructional and research mission of the university, provides business services for ASU students, faculty and staff.

Contact Information:

Carolyn DuPre, Vice President for Finance and Administration

Web: www.alcorn.edu/offices/finance
Phone: 601-877-4701
Email: cdupre@alcorn.edu

Campus Safety Center

The Campus Safety Center purpose is to provide a safe and supportive environment for the university community.

Contact Information:

Douglass Stewart, Campus Police Chief

Web: www.alcorn.edu/campus-police

Phone: 601-877-3100

Email: dstewart@alcorn.edu

Financial Aid

The Financial Aid Office processes applications for all federal, state, and institutional student financial aid for all applicants at Alcorn State University.

Contact Information:

Juanita McKenzie Russell-Edwards, Financial Aid Director

Web: www.alcorn.edu/admissions/financial-aid

Phone: 601-877-6111

Email: juanita@alcorn.edu

Help Desk

The Center for Information Technology mans a Help Desk as a centralized resource for technology issues/questions, including those pertaining to email account setups, Banner Online access and many other virtual services.

Contact Information:

Sherry Carradine, Help Desk Coordinator

Web: <http://www.alcorn.edu/offices/finance/cits>

Phone: 601-877-6111

Email: helpdesk@alcorn.edu

Library

A group of helpful, enthusiastic staff are available to assist students with media and research resources. Professional librarians offer general reference assistance in person, over the phone, or via email.

Contact Information:

Dr. Blanche Sanders, J. D. Boyd Library Dean

Web: www.alcorn.edu/academics/library

Phone: 601-877-6350

Email: blanche@alcorn.edu

Office of the Registrar

The Office of the Registrar provides information regarding records, transcripts, registration, scheduling of classes, processes adds, drops, and withdrawals.

Contact Information:

John Igwebuike, Student Records

Web: <http://www.alcorn.edu/academics/registrar-office>

Phone: 601-877-6170

Email: jjgwe@alcorn.edu

Residence Life (Housing)

Preparing students for independent living experiences in a nurturing residential environment in a campus setting.

Contact Information:

Jessica Foxworth, Housing and Residence Life Director

Web: www.alcorn.edu/students/residence-life

Phone: 601-877-6478

Email: jfoxworth@alcorn.edu

Student Affairs

The Vice President for Student Affairs responds to the needs and concerns of students and offer services to ensure a successful experience at Alcorn.

Contact Information:

Emanuel Barnes, Vice President for Student Affairs

Web: www.alcorn.edu/academics/student-services

Phone: 601-877-6180

Email: ebarnes@alcorn.edu

Nondiscrimination Policy

Students have the right to be free from all forms of discrimination. Alcorn State University complies with all laws regarding affirmative action and equal opportunity in all its educational programs, activities, admissions or employment practices and does not discriminate against anyone on the basis of age, creed, color, national or ethnic origin, race, religion, gender, disability, sexual orientation or veteran status.

GRADUATE ADMISSIONS POLICIES AND PROCEDURES

ADMISSION TO GRADUATE STUDY

Minimum Requirements for Admission

Admission to graduate study at Alcorn State University is open to applicants (1) who have earned a baccalaureate degree from an accredited institution with an adequate cumulative grade point average, and (2) who have achieved an adequate score on an appropriate standardized examination. Applicants to certain degree programs (i.e. MBA and Nursing) may be required to meet additional criteria, which are specified in the “Program Description” section of each degree program.

Alcorn State University admits all qualified applicants and offers equal educational opportunities regardless of race, color, sex, age, national origin, religion or disability. Applicants are admitted on the basis of the probability of their success in completing the requirements for graduation.

The minimum requirements for admission to the Alcorn State University Graduate Studies are:

- All applicants must have a U.S. bachelor's degree or its equivalent from a regionally accredited institution.
- If a student's degree is from a non-U.S. college or university, the institution must be recognized and approved by the Ministry of Education or Commission responsible for higher education in the country where the degree is earned.

Each department has devised its Graduate Admission Formula which is an aggregated score that factors the required standardized test score, GPA, and other admission credentials. Prospective students interested in knowing the admission formula used to make an admission decision are advised to contact the respective department.

United States Degree Seeking Applicants Admission Requirements (Domestic)

1. **Application:** Each applicant must submit a completed application form. Applications for admission must be received by the specified deadline.
2. **Official Transcripts:** Applicants must submit official transcript(s) (sent directly to the School of Graduate Studies from the issuing institution) from all institutions attended for undergraduate or graduate work. **All applicants must have a baccalaureate degree from an accredited Institution and the degree must be posted on the transcript.**
3. **Standardized Test Scores:** Each applicant must submit an official score on a standardized test (GMAT, GRE, MAT, PRAXIS, etc.), as appropriate to the discipline. An adequate score on an appropriate standardized test is required for admission to a graduate degree program.
4. **Preparation:** Applicants should have demonstrated adequate academic preparation in their proposed program of study. Those with deficiencies in academic preparation may be required to take additional work to strengthen their backgrounds or submit additional credentials requested by the admissions committee for the respective academic unit.

5. Application Fee: Non-Mississippi residents must submit a \$10.00 application fee.
6. Approval for Admission: Each applicant for admission to a degree program must have the approval of the academic unit. Although admission documents are submitted originally to the Graduate School, all credentials are reviewed by the individual academic unit admissions committee where the admission decision is made.
7. Letters of Recommendation: Each applicant must submit two letters of recommendation from individuals, professors, or colleagues who can attest to their academic potential as a prospective student.

The application for admission to the Office of Graduate Studies and all supporting documents should be on file 30 days prior to the date of enrollment. Any student submitting credentials less than 30 days in advance of enrollment should contact the Office of Graduate Studies concerning appropriate action taken on his/her application for admission. Any credentials missing before a student's first complete term of registration will result in the student not receiving graduate credit for the course(s) taken and suspension of enrollment in additional courses.

TYPES OF ADMISSION TO GRADUATE PROGRAMS

Admission to the graduate program at Alcorn State University consists of three types:

1. **Unconditional Admission**
 - A. The applicant must hold a baccalaureate degree from an accredited four-year degree-granting institution.
 - B. The applicant must present evidence, by official transcript, of a cumulative grade point average of at least 2.5 (C+); however, please note that admission requirements may vary among specific degree programs.
 - C. Applicants must present standardized test scores as listed below:
 1. a score of at least 3.0 on the GRE Analytical writing component
 2. a score of at least 3.5 on the GMAT Analytical Writing component
 3. a passing score on PRAXIS I and II.
2. **Conditional Admission**: Applicants who graduated from an accredited undergraduate institution who do not meet the standards for unconditional admission may be admitted on "Conditional" status.
 - A. **Conditional Status**:
 1. Graduates of recognized four-year colleges not accredited when the bachelor's degree was awarded. Such applicants must:
 2. a. present a record of superior scholarship on the undergraduate level.
 - b. submit an official report of performance on the standardized test required by the degree program

3. Students who present a 2.25 to 2.49 cumulative grade point average **must, at the time of application**, submit an appropriate standardized test score required for unconditional admission. After admission status is granted, students may enroll in up to nine (9) semester hours of course work **specified by the graduate advisor or department chairperson**. If a 3.00 cumulative grade point average is attained, the student is permitted to petition for a change of classification.
3. **NON-DEGREE STATUS: ANY APPLICANT WHO HOLDS THE BACCALAUREATE OR HIGHER DEGREE AND WHO QUALIFIES FOR ADMISSION AND WHO DOES NOT WISH TO OR CANNOT BE LISTED AS A DEGREE CANDIDATE FOR ONE OF THE FOLLOWING REASONS IS ELIGIBLE FOR NON-DEGREE STATUS:**
 - A. student desires only academic enhancement;
 - B. student desires to transfer credits towards a graduate degree at another institution;
 - C. student wishes to accumulate credit towards “AAA” certification;
 - D. there is no degree available at the university higher than the one the student holds in his/her field of study; or
 - E. the student already possesses the graduate nursing degree and wishes to pursue the post master’s program of study. Upon the recommendation of the student’s advisory committee and department head, subject to the approval of the Graduate Council, credits earned as a “non-degree” graduate student may subsequently be used toward meeting graduate degree requirements at the university if the student decides to become a degree candidate or if a higher degree program is approved in his/her area of interest. “Non-degree” graduate students are not eligible for financial assistance from the university. Enrollment is limited to nine hours of academic credit.

Teacher Education Candidates

Admission to the Office of Graduate Studies does not mean that the student has been accepted as a candidate for the master's or specialist degree. A student desiring to earn the degree must apply in writing for admission to candidacy for a graduate degree by filing the proper application forms with the Assistant Vice President for Academic Program Support and Graduate Studies. **NOTE: Persons desiring AA certification must hold or qualify to hold a Mississippi Teaching Certificate. They must also conform to requirements for AA or AAA certification as listed in state requirements, and qualify for the Master of Science in Education or Specialist degree at Alcorn State University. The university will not submit applications for AA or AAA certification unless the criteria above are met.**

REQUIRED GRADUATE EXAMINATIONS

Entrance examinations are required of all prospective graduate students and Exit exams are required of all graduate students on track for graduation. Students can take these exams more than once, should they choose to do so. However, results of all attempts are reported to the Office of Graduate Studies and become a part of the students' permanent record.

ENTRANCE EXAMINATIONS

The Graduate Record Examination

The Graduate Record Examination (GRE) General is required of applicants for most of the degree programs at Alcorn State University. Students must take the test on verbal, quantitative and analytical skills to be considered for admission. Students are required to make a passing score of 3.0 on the Analytical Writing. Scores from this examination must be “released” to Alcorn State University Office of Graduate Studies. GRE scores may also be used for admission into the Master of Business Administration (MBA) Program.

The General Management Admission Test

GMAT is required for admission into the Master of Business Administration (MBA) Program. Students must take the GMAT in the general verbal, mathematical and analytical writing skills areas. Students must score at least a 3.5 on the GMAT Analytical Writing Component as criteria for admission.

Major Field Examination

The Major Field Exam is a degree requirement for all business students at the undergraduate level designed to assess mastery of concepts and principles as well as knowledge expected of students at the conclusion of a major in specific subject areas in business. Students must score 136 on this exam to be considered exempt from taking the GMAT for admission into the master level program. Writing proficiency, which is a requirement for admission but is not assessed on the Major Field Test, will have to be satisfied by meeting writing proficiency guidelines set forth by the School of Business within the first or second semester of attendance.

C.A.S.E. and PRAXIS TESTS

Master of Arts in Teaching applicants must meet the Mississippi teacher licensure requirements for admission. Alternate route teacher candidates are required to take the Core Academic Skills for Educators test. This test replaces the Praxis I test. It measures teacher candidates’ skills in reading, mathematics, and writing.

CASE (Core Academic Skills for Educators)

. The following Passing Scores are required.

Reading (test 5712)	156
Writing (test 5722)	162
Mathematics (test 5732)	150

Alternate route teacher candidates are required to pass the Praxis I and II tests in order to obtain licensure.

Praxis II

Praxis II Specialty Area (Content), the assessments are designed to measure the knowledge of specific subjects and teaching skills that candidates for K-12 certification have to acquire through completion of the Master of Arts in Teaching Program. Listed below are the Specialty Test Codes:

Art 5134	German 5183	Physical Education 5091
Biology 5235	Health 5551	Physics 5265
Business 5101	Home Economics 5122	Social Studies 5081
Chemistry 5245	Latin 5601	Spanish 5195
Elementary Education (grades 4-6) 5018	Marketing 5561	Special Education Mild/Moderate 5354
English 5038	Math 5161	Speech 5221
French 5174	Music 5113	

Test registration and information for Specialty Area Tests is available from Educational Testing Service 1-800-772-9476 or <http://www.ets.org>

The Test of English as a Foreign Language (TOEFL)

The TOEFL test is designed to test the English language proficiency of prospective international students. The test is required of all applicants whose native language is not English. This requirement by the Office of Graduate Studies is waived only for applicants who will have received a baccalaureate degree, or its foreign equivalent, prior to matriculation at Alcorn State University, from a university or college where English is the primary language of instruction (i.e. Ghana, India, etc.). Scores from this examination must be "released" to Alcorn State University Office of Graduate Studies.

International English Language Testing System (IELTS)

This test is an option for international students to assess their ability to communicate in English across all four language skills: listening, reading, writing, and speaking. The university level cut-score is generally 6 or 7.

International students can take either the TOEFL or the IELTS exam to meet university requirements for assessment of language ability.

EXIT EXAMINATIONS

Core Comprehensive Examination

The student will take a written examination on the core courses in the program of study. The student must successfully complete these courses or their equivalent before taking the examinations. In the case of a failure in any part of the core examinations, only one reexamination is normally allowed. Should a student fail only one part of the three parts of the core examinations, then the reexamination would be on that part only and given at a time convenient to the student and the committees involved. Passed sections on the Core are banked. Should a student fail two or three parts of the core examinations, then the reexamination would be on all three parts and will be given only at a regularly scheduled time for the core examinations. Failure on any part of the reexamination constitutes failure on the core examinations.

The Graduate Coordinating Unit Committee will give the core examinations. Regularly scheduled times for the core examinations are posted each semester, and a second term administration only in the case if they are needed

for graduation. Pass or fail will be determined by the criteria set forth by the academic unit and the result of the final score based on these criteria.

The core examinations are as follows:

School of Education and Psychology

All students enrolled in the Office of Education graduate programs must pass the Core Examination as a requirement for graduation. All students who have successfully completed at least two of the Core courses and who are officially enrolled in the third are eligible to take the Core Examination. An application to take the Comprehensive Examinations must be filed in the School of Education and Psychology office and approved by the Chair of the School of Education and Psychology before the examination date.

a. CORE courses:

1. **Foundations of American Education** (ED 512)
2. **Methods of Educational Research** (ED 514)
3. **Advanced Educational Psychology** (PH 513)
4. **Curriculum (Methods) Development** (ED 533)

Area Examination

All Master of Science/Specialist degree students are required to pass the Area Examination. The time of the Area Examination is determined by the student's advisory committee or the department chairperson. Students eligible to take the Area Examination should contact their advisor or department chairperson. This does not apply to the Master of Science in Nursing or to the Master of Business Administration.

Writing Proficiency

All candidates for graduate degrees must demonstrate English writing proficiency. If the student fails to make the required cut-score on the designated standardized examination, he/she may be admitted in the Conditional Admissions category. The student must enroll, maintain a 3.0/4.0 GPA and satisfy analytical writing requirements established by his or her academic unit during the first year of enrollment. The student must pass these departmental requirements to continue graduate enrollment.

Students are required to score the following on standardized tests for admission:

Test	Satisfactory Score
Analytical Writing Portion of the GRE General Test	3.0
GMAT Analytical Writing Component	3.5
Core Academic Skills for Educators Writing Component	162

APPLICATION DEADLINES

Priority processing is given to applicants submitting all required credentials for admission by the specified deadlines. Applications received after the deadlines are not guaranteed to be processed in time before registration ends. It is the responsibility of the prospective student to make certain that all admission materials are complete and submitted to the Office of Graduate Studies in a timely manner with respect to admission deadlines. Submission of complete application credentials will insure consideration by the admission committees for the respective programs of study. Therefore, it is critical that prospective students adhere to the deadlines below.

The deadlines for applications are:

July 15 (Fall)

November 25 (Spring)

April 25 (Summer I)

May 25 (Summer II)

APPLICATION PROCESS

Students who are seeking the master's degree must hold the bachelor's degree or its equivalent from an accredited institution. Graduates of unaccredited institutions should read the guidelines for conditional admissions.

All applicants must submit a complete admissions packet before an admissions decision can be made. The application packet includes:

- a. completed application;
- b. official transcript(s) of all academic work on the collegiate level;
- c. the results of the Graduate Record Examination (GRE), the Graduate Management Admissions Test (GMAT), or CASE and Praxis II;
- d. two letters of recommendation;
- e. application fee of \$10.00 (money order). **This applies to out-of-state students only;** and
- f. copy of current teacher's license. *

*Students enrolling in Elementary Education, Secondary Education, and Education Specialist programs.

There are four types of applications for admission:

1. First Time Graduate Application for Admission
2. Graduate Readmission Application
3. Second Master's Degree Application
4. Non-Degree Application

The Admission Process

A. Office of Graduate Studies (OGS) will receive:

- Application and Application Fee, if applicable
- Letters of Recommendation
- Appropriate Standardized Test Scores
- Official Transcript(s)
- Credential Course-by-Course Evaluation (International Students)
- TOEFL or IELTS (International Students)
- Statement of Financial Support (International Students)
- Copy of Educator License, if applicable (M.S. in Education)
- Statement of Purpose (Non-degree)
- Goal Statement (Applied Science and Nursing applicants only)
- Resume (Applied Science, MBA, Nursing)

B. Office of Graduate Studies will verify the student's file is complete, assemble credentials for electronically transmitting to appropriate department.

C. Departmental Admissions Committee will review file and return decision within 5-7 days to Office of Graduate Studies with recommended advisor.

D. Office of Graduate Studies will send letter of acceptance or rejection to applicant with recommended advisor and copy department chair.

E. Official student record will be maintained by the Office of Graduate Studies in electronic format.

This process will give Departments an opportunity to be involved in the decision-making. It will also give Departments the autonomy to select those applicants who best fit their program need for quality students.

Students are either admitted as Unconditional, Conditional, or Non-Degree based on their credentials at the time of application.

Disposition of Application Materials

Credentials or supporting materials submitted for admission to the Office of Graduate Studies become the property of the University and are not returned. Copies will not be provided to a third party outside the University even at the applicant's request. Copies of application materials may be provided to appropriate offices at the University in the interest of academic matters or in the interest of financial aid awards, or scholarships that are relative to the applicant. Any exception to this process will be determined by the appropriate Graduate Studies administrator.

GRADUATE PROGRAMS OFFERED

With authorization of the Board of Trustees, State Institutions of Higher Learning, State of Mississippi, Alcorn State University offers ten graduate degree programs: The Master of Science in Education, the Master of Arts in Teaching, the Master of Science in Agriculture, the Master of Science in Applied Sciences, the Master of Science in Biology, the Master of Science in Biotechnology, the Master of Business Administration, the Master of Science in Nursing, the Master of Science in Computer and Information Sciences, the Master of Science in Workforce Education Leadership and Educational Specialist in Elementary Education,.

- A. The Master of Science in Education degree program is designed to lead toward AA in the following areas:
 - . Elementary Education with endorsement options in the following areas:
 - . Early Childhood Education
 - . Reading
 - . Secondary Education with endorsement options in the following areas:
 - . Agricultural Education
 - . Athletic Administration and Coaching (Teaching)
 - . Athletic Administration and Coaching (Non-Teaching)

- . Biology
 - . Chemistry
 - . Clinical Mental Health Counseling
 - . English
 - . Mathematics
 - . Music
 - . Physical Education
 - . School Counseling
 - . Science
 - . Social Science
 - . Special Education: Educationally Disabled
- B. The Master of Science in Agriculture degree is awarded in Agriculture with endorsement options in the following areas:
- . Agricultural Economics
 - . Agronomy
 - . Animal Science
- C. The Master of Science in Applied Science and Technology degree is awarded with endorsement options in the following areas:
- . Computer Systems and Networks Technology
 - . Electrical and Electronics Engineering Technology
 - . Geospatial Engineering Technology
 - . Homeland Security Management
 - . Radiological Health Science
 - . Technology Management
- D. The Master of Science in Biology is awarded in the biological sciences.
- E. The Master of Science in Biotechnology
- F. The Master of Science in Computer and Information Sciences
- G. The Master of Science in Workforce Education Leadership (Joint ASU/MSU Program)
- H. The Master of Science in Nursing degree is awarded with an endorsement in the areas of:

- . Family Nurse Practitioner (eligible for certification as family nurse practitioner)
 - . Nurse Educator
 - . Psychiatric Mental Health Nurse Practitioner
 - . Geriatric Nurse Practitioner
- I. The Master of Business Administration
- . General Business
 - . Gaming Management
 - . Hospitality Management
- J. The Master of Arts in Teaching (MAT) with an endorsement in the following areas:
- . Elementary Education
 - . Secondary Education
- K. The Educational Specialist's degree is awarded in Elementary Education

SPECIALIST IN EDUCATION

Admission to the Specialist Program is contingent on the applicant holding endorsement in elementary education, or related field, AA Educator License in elementary education and a transcript documenting completion of a master's level program of study. Thirty-nine (39) hours are required for degree completion. Students are required to complete a thesis.

MASTER'S DEGREE APPLICANTS

The master's degree requires a minimum of 33 semester hours of graduate course work. Some master-level programs may exceed this number of hours. Students pursuing a degree or endorsement in Biology and Agriculture have an option of thesis or non-thesis. Students may not enroll in two master's programs concurrently.

SECOND MASTER'S DEGREE

Applicants holding a graduate degree in one area may earn a second master's degree in another area at Alcorn State University.

Students who already have a master's degree in an area from Alcorn State University may earn a second master's degree with fewer than the usual number of credits if the core courses in the first degree are the **same** for the second degree and are completed within the maximum time limit of six years. Including the core courses previously completed, all degree programs require at least 33 semester hours of credit. (Some programs will require more than a total of 33 semester hours.) If the core courses in the first master's degree are common to the second master's degree, retaking of the core examination is waived.

1. If core courses exceed the time limit, an Appeal must be presented to the department to make a determination regarding curriculum content or alternate core courses to replace core courses that have exceeded the time limit.
2. All candidates for a second master's degree must meet the following 1. Must complete the requirements for one degree in full before any final admission decision is made concerning application toward the second degree. 2. Meet all graduate admission requirements of Alcorn State University and the department. and 3. Complete the application for a Second Master's Degree from Alcorn State University.
3. On the recommendation of the program advisor, students may transfer up to the following credits from the first master's into the second master's degree program.
 - For 30-33-semester-hour programs, no more than 9 approved hours.
 - For 36-60-semester-hour programs, no more than 12 approved hours.
 - A thesis completed for a previous degree cannot be used for a second master's degree.
 - Core courses common from the first master's degree to the second master's will be the limit allowed for transfer.
 - The six-year time limit does not apply to courses from a previous master's degree used for transfer (core courses do not apply).

Courses allowed for transfer from the first master's degree must be graduate courses completed with a B, or better, providing the hours are in a related field of study for the second master's degree

Academic units may specify additional requirements depending on the length of the program, prerequisites for the individual student, and/or the nature of the first degree.

4. Second master's degrees are not allowed in the same program of study for students who earned their first master's degree at Alcorn State University or at any other university. The second master's degree must be based on: A different option from the first master's degree and a curriculum distinct from the first master's degree containing a minimum of 30 units of coursework different from those taken to earn the first master's degree.
5. Dual enrollment in different programs concurrently is not permitted. Thus, students may only be enrolled in one program of study at a time.
6. No Thesis or Research Project credits from the first master's degree can be used for the second master's degree.

A Second Master's Degree When the First Degree Received from A Different University

1. Students coming to the University with a master's degree from another accredited institution may receive a master's degree from the University in a different field.
2. For students who earned their first master's degree at another institution, no coursework may be repeated from the first program of study unless otherwise determined by the admitting department.
3. Only six transfer hours from the first program of study may be counted toward the second master's degree if the maximum time limit does not exceed six years on the coursework.
4. The student must submit a First Time Graduate application for admission.
5. The academic unit for the second master's must approve the transfer credits and they must be recorded on the student's program of study sheet.
6. Academic units may specify additional requirements depending on the length of the program, prerequisites for the individual student, and/or the nature of the first degree.

NON-DEGREE ADMISSION

Applicants must meet general admissions requirements of the Office of Graduate Studies. Non-degree admission is granted to those who wish to enroll in courses but do not intend to qualify for a degree. The non-degree admission category includes prospective students entering Graduate School for these purposes:

- a. to enrich their professional development;
- b. to complete certification requirements, students should consult the appropriate academic department and School of Education Dean and Department Chair;
- c. to enroll in courses related to a program of study until applicant can satisfy all credentials required for admission;
- d. to transfer credits earned to a degree program at another institution.

Credits earned in the non-degree category are not ordinarily requirements for degrees. If subsequently, a student classified as non-degree is accepted into a degree program, the student may by petition, if approved, carry forward not more than nine (9) semester hours of credit previously earned as a non-degree student in graduate-level courses, provided that the grade in each course is not less than 3.0. Departments may restrict non-degree students to designated courses only. Non-degree students must have the approval of the department head (or designee) to enroll in a class.

The Assistant Vice President for Academic Program Support and Graduate Studies is the Advisor for all non-degree students. If students desire to change their status to degree seeking, they must complete a "First Time Graduate Application for Admission to the Office of Graduate Studies, submit all required documents such as test scores, and subsequently be recommended for admission to the graduate degree program by the academic unit's admission committee in accordance with their departmental program requirements.

PROCEDURES FOR READMISSION

Students who have not been in attendance at Alcorn for one or more semesters need to reapply for admission. This includes students on academic probation who do not continue their program to improve their GPA after being placed on academic probation. Readmission entails completing the Readmission Application to reenter the same program of study or apply for a change in program. If the admission guidelines have changed since a student's last attendance, the student must comply with the guidelines in place at the time he/she is seeking readmission.

ADMISSION OF INTERNATIONAL STUDENTS

International students who meet specific program requirements and for whom Alcorn has appropriate programs at the graduate level are invited to make application. Such applications must be supported by satisfactory evidence of their qualifications to pursue a full course of study at this institution.

Applications for admission of international students must submit the following items:

Application: All international graduate applicants must complete an application form and send it with the appropriate non-refundable application fee (\$10.00) to the Office of Graduate Studies, 1000 ASU Drive #689, Lorman, MS 39096.

Official Transcripts: Applicants must submit an official transcript of all course work completed on the collegiate level. All transcripts from international colleges and universities must be accompanied by verification that the

degree is equivalent to a B.S., B.A., or M.S. degree from a college or university in the United States. Students transferring to the university from another college must submit a copy of their domestic transcript.

GPA: Verification that the student's grade point average is at least a 2.5 on a 4.0 scale must be submitted as part of the admissions process. Verification must be certified by a professional credential evaluation service. Applicants may select any National Association of Credential Evaluation Services (NACES) member to provide this service. (See NACES web site, www.naces.org, for a list of NACES members.)

Credential Evaluations: All credential evaluations must include each educational credential and its U.S. equivalent 1) grade average and 2) information regarding the accreditation status of the institution attended.

An official transcript of all **course-by-course** work completed on the collegiate level must be submitted. All transcripts from international colleges and universities must be accompanied by verification that the degree is equivalent to a bachelor's or master's degree from a college or university in the United States. Also, verification that the student's grade point average is at least a 2.5 on a 4.0 scale is needed. Verification must be certified by a professional credential evaluation service. Applicants may select any National Association of Credential Evaluation Services (NACES) member to provide this service. (See NACES web site, www.naces.org, for a list of NACES members.)

Test of English as a Foreign Language: All international graduate applicants must present an official TOEFL score to the Office of Graduate Studies. An IELTS may be submitted as alternative test results for the TOEFL.

Standardized Test Scores: Each applicant must submit an official score on a standardized test (GMAT, GRE, CASE, PRAXIS, etc.), as appropriate to the discipline. An adequate score on an appropriate standardized test is required for admission to a graduate degree program.

Statement of Financial Support: Declaration and certification of finances on the financial institution's letterhead and notarized must be submitted. The declaration must equate to the assessed amount by the university in American dollars.

Additional Requirements for admittance: The U.S. Immigration and Naturalization Service requires certification that **ALL** standards for admission have been met before the I-20 form for F-1 is issued. International students are required to complete their admissions procedures at least 30 days prior to the term in which they expect to enter.

Letters of Recommendation: Each applicant must submit two letters of recommendation from individuals, professors, or colleagues who can attest to their academic potential as a prospective student. The letters must be signed and dated.

Appropriate I-20 forms will be issued after all official credentials have been received and the completed application has been reviewed and approved by the major department. The U. S. Immigration and Naturalization Service requires certification that all standards for admission have been met before the I-20 form is issued. International students are required to complete their admissions procedures at least 30 days prior to the term in which they expect to enter.

F-1 Students: Basic roles and relationships of an International Student on F-1 Visa

An F-1 student is a nonimmigrant who is pursuing a "full course of study" to achieve a specific education or professional objective, at an academic institution in the United States that has been designated by the department of Homeland security to offer courses of study to students, and has been enrolled in Student and Exchange Visitor Information Systems. A student acquires F-1 status using Form I-20, issued by a Designated School Official assigned by the Assistant Vice President for Academic Program Support and Graduate Studies. Status is acquired in two ways:

- a. if the student is abroad, by entering the United States with the I-20 and an F-1 visa obtained at the U. S. consulate; or
- b. if the student is already in the United States, by sending the I-20 to USCIS with an application for change of nonimmigrant status.

TUBERCULOSIS CHEST X-RAY

International students seeking admission at Alcorn State University must comply with the IHL Admission Policy for International students relative to communicable disease screening. To comply, students must submit proof of test screening. The chest x-ray must be conducted by an authorized and licensed health care provider. An acceptable test result is “negative”. Laboratory reports must state the findings. Individuals who screen ‘positive’ will not be admitted. Test results must be submitted in a sealed envelope from the healthcare provider or submitted by electronic means from the healthcare provider. Students in non-compliance of this admission requirement will not be permitted to complete registration, attend classes, or reside in the residence halls until this requirement has been satisfied.

ADVANCED GRADUATE ADMISSION FOR UNDERGRADUATES

An undergraduate senior student with minimum total cumulative GPA of 3.00/4.00 who is enrolled in the last semester of course work that will complete the requirements for a bachelor’s degree, may request advanced graduate admission to enroll in (3) three to six (6) hours of graduate courses provided the total course load does not exceed twelve (12) hours. Courses for seniors are limited to first-year graduate level courses. Graduate courses may not be used as credit toward an undergraduate degree. The combination senior is not considered a graduate student but may apply for admission to a graduate program upon completion of the bachelor’s degree.

However, advanced admission to the graduate courses does not guarantee subsequent admission to a graduate program. Courses taken for graduate credit may count toward a graduate degree when/if the student is admitted to a degree program at Alcorn State University and if approved by the program’s graduate coordinator and department Chairperson. The Application to Enroll in 500 Graduate Level Course(s)-Undergraduate Senior Only form for admission to the Graduate School must be completed six (6) weeks prior to the beginning of the semester in which advanced admission is sought.

ACCESS TO EDUCATIONAL RECORDS: FERPA

The Office of Graduate Studies adheres to the Family Education Rights and Privacy Act of 1974 (FERPA) to protect the security, confidentiality, and integrity of students’ education records. Among its several purposes, the Family Educational Rights and Privacy Act of 1974 (FERPA) was enacted to protect the privacy of students’ education records, to establish the rights of students to inspect and review their education records, and to provide students with an opportunity to have inaccurate or misleading information in their education records corrected. FERPA also permits the disclosure by an institution without a student’s prior consent of so-called directory information about that student. Students have the right to file complaints with the Department of Education’s Family Policy Compliance Office concerning alleged failures by an institution to comply with FERPA. In accordance with the statute and the FERPA regulations issued by the Department of Education, the School of Graduate Studies has adopted the following policies and procedures.

"Education records" available for review are defined as those records, files, documents, and other materials that contain information directly related to a student and that are maintained by the University. The form in which the information is maintained by the University does not matter; for example, computerized or electronic files, audio

or video tape, photographic images, film, etc., with such information are "education records". This includes communications and documents distributed or received by e-mail, or other similar University systems, which are retained in these systems, either by the sending or receiving party.

In general, records maintained by the University that are available for student review are: recorder's docket, admissions docket, departmental docket, placement docket (if student has a file there), financial aid docket (if student has applied for aid), advisement and counseling dockets from the various schools, and bursar's docket. Not all of these categories of records are maintained for any given student, and there may be others. Students have the right to review original documents from their files.

Under FERPA and its related regulations the following types of University records are not "education records" and are, therefore, not available for student review:

Personal notes or records (including computerized files) that are kept by an individual University employee solely in her or his possession, are used only as a personal memory aid, and are not accessible or revealed to others, except to a temporary substitute.

Records that relate to an individual who is employed by the University and that (a) are made and maintained in the normal course of business, (b) are not available for use for any other purpose, and (c) relate exclusively to the individual in that individual's capacity as an employee. This exception does not apply to records that relate to a student in attendance at the University who is employed as a result of his or her status as a student.

Medical and psychiatric records created, maintained, and used only in connection with the treatment of a student and that are not available to anyone other than the persons providing such treatment. Such records can be personally reviewed by a physician, psychologist, or other appropriate health professional of the student's choice. (Students who have received treatment from the University Health Center or from the University Counseling Services may contact those offices to inquire concerning access to patient information.)

Records that contain information relating to an individual who no longer is a student at the University and that are not directly related to the individual's attendance as a student, i.e., alumni records.

Grades or peer-graded papers before they are collected and recorded by an instructor.

Also, the Office of Graduate Studies does not have to permit a student to review education records that are:

- Financial records of the parents of a student.
- Confidential letters and statements of recommendation placed in the education records of a student (a) prior to January 1, 1975, as long as they are used only for the purposes for which they were specifically intended; and (b) after January 1, 1975, if the student has waived access to such letters and recommendations and if such letters and recommendations relate to the student's admission to an educational institution (including admission to NYU), application for employment, or receipt of an honor or honorary recognition (see Section V, Waivers).

Records Maintained by Office of Graduate Studies

Two kinds of records are maintained on students: 1) Admission and 2) Candidacy. Hard copy records of both are archived into electronic format. These records are created and housed on a secure university server.

Admission records include applications, transcripts, test scores, letters of recommendation, program of study sheets, eFile Transmission form, and other supporting documents for Domestic and International students. Paper admission records are maintained for a period of eight years before they are shredded. A complete electronic copy of a student's file is maintained in the document imaging system in a secure shared file.

Admission records are transmitted to the Departmental Graduate Admissions Committee to make an admission decision. When a student completes an Application for Candidacy, the student record becomes a Candidacy record unless the student is non-degree.

Candidacy records are used to monitor students' progress through graduation. Candidacy records include academic notification letters, Core Exam Report, Area Exam Report, application for degree, program of study, final transcript, and candidacy checklist. Student records are never removed from the Office of Graduate Studies office.

All application materials become part of the permanent records of Office of Graduate Studies and will not be returned to the applicant. Access to the material is limited under FERPA (Family Rights and Privacy Act of 1974). Applicants who are not admitted, or who are admitted and do not register, do not have access to their application files. Credentials received from applicants who do not complete the application process or who are not admitted are kept on file for one year and thereafter, destroyed.

Standardized test results are part of the students' permanent record and are under embargo for the first five years from the initial date of the test report. Students in need of a copy of their test results must contact Educational Testing Service (ETS) for copies of their scores during the five-year embargo. Students requesting a copy of their results after the five years' time period must do so in writing. Students must access the appropriate form on the Graduate Studies website to make this written request. This request must be submitted to the Office of Graduate Studies at least three (3) days in advance of the request. A picture ID must accompany the FERPA Release of Information form.

ONLINE ORIENTATION

The Office of Graduate Studies offers Cyber Orientation to help new, transfer and returning students to have immediate access to becoming adjusted to graduate life at Alcorn State University and being informed. To access the web site, visit www.alcorn.edu/academics/graduate to access the Cyber Orientation module.

STUDENT RESPONSIBILITY

Students enrolled at Alcorn State University must ultimately assume full responsibility for their actions and must adhere to the rules and regulations as set by the University. Violations of these regulations and/or a demonstrated unwillingness to obey the rules governing conduct may lead to sanctioned disciplinary action by the University. The University Code of Conduct for students is published online and in hard copy in the Student Handbook in section Student Code of Conduct Handbook. The University holds all students responsible for reading the handbook. Failure to read the Student Handbook does not excuse one from following the rules and regulations, therefore, students are urged to read this Handbook thoroughly. In addition, students are required to acknowledge receipt of and responsibility for reading the handbook by signing and returning an acknowledgement receipt.

TUITION AND FEES

Students must confirm the amount of tuition and fees with the Business Office each semester of enrollment. To access the current fee schedule, visit the Alcorn State University web site (www.alcorn.edu) and select the "Current Students link, followed by selecting the link for "Registration".

RESEARCH SUBJECTS

All research involving human subjects must be approved prior to including these subjects in research projects or studies. Prior approval must be obtained from the Alcorn State University Institutional Review Board for the Protection of Human Subjects in Research (IRB).

Faculty guiding student research with the intent to use animals in their study must initiate the process for approval. Prior approval must be ascertained from the Institutional Animal Care and Use Committee (IACUC).

ACADEMIC REGULATIONS

All graduate students must maintain a minimum standard of 3.0 on a 4.0 system (see requirements for candidacy). The student must not accumulate more than six semester hours of credit below B (3.0). Academic records reflecting more than two 'Cs' have to be addressed and the student must retake the appropriate course(s) in order to be in compliance with this academic requirement to satisfy progression to graduation. If these conditions are not met, either of the above will result in the removal of the student from candidacy for the degree.

All graduate students must maintain a minimum standard of 3.0 on a 4.0 system (see requirements for candidacy). The student must not accumulate more than six semester hours of credit below B (3.0). The student cannot graduate with a letter grade of D or lower. Students receiving a letter grade of D or lower must re-enroll in the course and make a higher grade. Either of the above (six semester credit-hours below B or a letter grade of D/F) will result in the removal of the student from graduate degree candidacy status.

A student will be placed on probation at the close of any term in which the student's cumulative GPA fall below a 3.0. A student is subject to dismissal from the program if the minimum GPA is not obtained in the subsequent 9 semester hours of course work. Students may apply for readmission after one semester, except graduate nursing students who if dismissed for academic failure may not apply for readmission at any time. The School of Nursing has special guidelines to govern academic performance and progression of students. See the information on the Graduate Nursing Program in the published School of Nursing Graduate Student Handbook at: <http://www.alcorn.edu/academics/schools/son/index.aspx> for policies and procedures regarding course grades and GPA requirements applying to progression and dismissal in the Graduate Nursing Program.

ACADEMIC PROBATION AND SUSPENSION

PROBATIONARY STATUS

Academic Performance

Academic performance of all currently enrolled graduate students is monitored each semester by the Office of Graduate Studies staff.

A graduate student must maintain a minimum cumulative grade point average of 3.0 on a 4.0 system at Alcorn State University to remain in good academic standing. The student must not accumulate more than six semester hours of credit below B (3.0).

A graduate student will be allowed to repeat a maximum of two courses in which the student has been assigned a grade of C or F. A given course may be repeated once.

Academic Probation

A student will be placed on probation at the close of any term in which the cumulative GPA of less than 3.0 is achieved. The student has one semester following notification of academic probation to bring his/her GPA to 3.0.

A student is subject to dismissal from the graduate program if the minimum GPA is not obtained in the subsequent 9 semester hours of course work. Students may apply for readmission after one semester except graduate nursing students who if dismissed for academic failure may not apply for readmission at any time.

Students whose cumulative GPA falls below a 3.0 must be provided with a written explanation of performance expectations and a timetable for correction of deficiencies. A student may be placed on probation at any time of the year, but it would normally occur following either the fall semester (with a letter mailed in January) or the spring semester (with A letter mailed in May). Students' progress must be monitored to determine if the deficiency GPA has been improved.

In addition to sending academic probation notification to the Vice Provost for Academic Affairs and Graduate Studies, a notification is also sent to the student's academic advisor/academic unit chair.

A copy of the academic notification and/or dismissal to the student becomes a part of the student's permanent record.

An academic hold is placed on the student's account in Banner as well as a "Graduate Warning" is designated by the Registrar's Office. The **Hold** is removed the ensuing semester to allow the student to register in an attempt to improve his/her GPA. Once the student registers, the Hold is reinstated until the end of the term to monitor the student's progress toward attaining the 3.0.

Following review of the student's semester grades and GPA, a determination is made to remove the Hold (student has achieved the required 3.0 GPA) to allow the student to continue or notification of termination from the Office of Graduate Studies is communicated in writing to the student.

A prospective graduate whose GPA falls below the 3.0 will not be issued a diploma until he/she has satisfied the required 3.0 to graduate.

Students on academic probation may continue to hold a graduate assistantship or receive financial aid.

Termination

Graduate students will be terminated from their program of study if they have not satisfied the GPA requirement of 3.0.

In cases of program termination, no further registration in a graduate program at Alcorn State University will be permitted.

A termination letter will be sent to the student informing him/her of this determination.

When review of a student's performance and progress result in a determination that it has been unsatisfactory, the name of the student and recommendation for action--dismissal--must be communicated to the Vice Provost for Academic Affairs and Graduate Studies.

The Office of Graduate Studies performs duties as required by U.S. federal regulations regarding international students not eligible to continue study at Alcorn State University based on termination for failure to maintain good academic standing.

Notification of termination will be sent to the appropriate academic unit.

ADDITIONAL REGULATIONS FOR PROBATIONARY STUDENTS

Repeating grades of "D+" or lower is usually a good idea. However, (a) a student is limited to 6 hours of repeats; (b) a student may repeat a course **ONLY ONCE**; and (c) the **SECOND** grade replaces the original grade, even if the second grade is **LOWER**.

Outstanding grades of Incomplete should not be ignored; students should speak with their adviser about how to handle "I" grades based on the university and Office of Graduate Studies policies. Incompletes will lapse to "F" is not removed within the specified time limit.

A graduate student who fails to remove an incomplete grade will have a hold placed on his/her account after the expiration date (60 days for currently enrolled students and 13 months for non-enrolled students) to have the grade

changed to a passing grade. The 'graduate hold' will remain until the student has satisfied the tenets of this policy. "A hold" will prevent a student from registering for the desired semester.

The incomplete grade will remain on the student's transcript until an assigned grade change form is submitted to the Registrar's Office.

ACADEMIC TRACKS

Plan A - Thesis Plan

This plan requires the completion of a minimum of 27 hours of Graduate course work plus a thesis research project which yields six semester hours of credit, and the passing of a comprehensive examination in the professional education area and the field of endorsement. The thesis committee members should be selected under the guidance of the thesis chair (a minimum of two members in addition to the chair). The student will be advised by an advisory committee, composed of two members from the field of endorsement, and a third member may be chosen from any qualified Alcorn State University faculty, or a qualified community member holding a master's degree or higher. If a student selects a member outside of the university, a letter of explanation regarding why a thesis member outside of the university was chosen needs to be sent to the Assistant Vice President for Academic Support and Graduate Studies, along with the proposed member's curriculum vita. A letter of approval for the proposed committee member should be obtained from the Assistant Vice President for Academic Program Support and Graduate Studies.

The option of a project in the research process is also available to graduate nursing students. The student is required to complete at least three components of the research process under the guidance of a research mentor. The same manual guidelines should be adhered to that govern the thesis.

Students should follow the steps for electronic submission of thesis and research project for the initial submission and second submission. Four original signature pages must be submitted on white 20 lb., 25% cotton bond paper to the Office of Graduate Studies the same day the thesis is submitted or no later than 24 hours following initial electronic submission.

The bound thesis must also follow the paper requirements/specifications expected for the signature pages. The student is responsible for delivering two of the four original copies of the bound thesis to the Office of Graduate Studies on or before the second Friday of April for May graduation and on or before the second Friday in November for December graduation. The third and fourth copies of the bound thesis are for the department and student. Students will follow the guidelines in the Thesis Manual, published by the Office of Graduate Studies and available online.

Plan B - Non-Thesis Plan

This plan requires the completion of a minimum of 33 hours of course work which must be at the graduate level, and the passing of a final comprehensive examination in the professional education field and the field of endorsement. The student will be advised by an advisory committee, composed of two members from the departmental faculty, one member from the specific degree discipline, and a third member designated by the Assistant Vice President for Academic Program Support and Graduate Studies or the Department Chairperson. The final examination will be administered by the advisory committee. A candidate may be reexamined a second time after a minimum period of two months' delay if his/her performance on the first examination is unsatisfactory.

Programs will be individually prescribed by the student's advisory committee involved in each area of concentration. The Thesis/Project Submission Calendar is available on the Graduate Studies webpage to guide timelines for submission for the review process. One spiral-bound copy of the research project is required to be submitted to the Graduate Office after final corrections and approval has been given by the Office of Graduate Studies administrator.

Students should follow the steps for electronic submission of thesis and research project for the initial submission and second submission published on the Graduate webpage. Original signature pages must be submitted on white 20 lb., 25% cotton bond paper to the Office of Graduate Studies the same day the thesis is submitted or no later than 24 hours following initial electronic submission.

Nursing students sit for a comprehensive exam that replaces the thesis or non-thesis option. The goal of this requirement is to increase retention, progression, and the pass rate on the national certification examination. Those students desirous of writing a thesis/project may continue to do so.

APPEALS PROCESS

The Office of Graduate Studies recognizes that students have the right to due process to appeal an admission or academic decision he or she believes is incorrect or warrants redetermination. An appeal notification must be submitted to the Assistant Vice President for Academic Program Support and Graduate Studies within ten (10) days following an admission decision or academic probation or termination notification. Upon review and rendering a decision, the student will be notified of the Assistant Vice President's decision. If the student is not satisfied with this decision, a second appeal can be filed with the Provost for Academic Affairs.

The academic appeal process for graduate students is designed to be a fair process in making determinations about the academic status of students and their continuation in graduate school at Alcorn State University. An Appeals Committee adjudicates requests of appellants and timely notifications are sent to apprise students of the committee's decision. There are two levels in the hierarchy for submitting an appeal.

Level 1: **Graduate Studies**

1. Student submits the Appeal Form to the Office of Graduate Studies via email to graduatestudies@alcorn.edu.
2. Supporting documentation must be attached to the Appeal Form to augment the reason for the appeal.
3. Appeal is reviewed 3-5 days following submission. A detailed electronic communication is forwarded to the student to inform him/her of the decision and the next step.
4. Questions regarding the decision should be directed to the Support Programs Coordinator in the Office of Graduate Studies or Graduate Studies administrator.

Level 2: **Academic Affairs**

1. Student has the option of submitting an appeal to the Office for Academic Affairs if he/she did not receive a favorable decision at Graduate Studies Level 1.
2. The student must provide a formal written request using the Academic Affairs Appeal Form to Academic Affairs within one week after receiving the decision at Graduate Studies.
3. The student must submit all pertinent documentation at Graduate Studies including a copy of the appeal decision.
4. The student must craft a detailed scholarly letter stating justification for requesting reversal of the appeal decision. It is the student's responsibility to make their case.
5. An appeal to Academic Affairs is no guarantee that the appeal decision at Level 1 will be reversed. The appeal will receive a fair and impartial review.
6. A decision will be rendered based upon the evidence of the complaint.

Students can submit an appeal for one/or a combination of the following reasons.

- a. The student has been placed on academic probation and has not satisfied the conditions of this probation in retaking classes in which a deficient grade was assigned due to course(s) not offered during the specified term.
- b. A claim by the student extenuating circumstances interrupted the student's enrollment and academic performance which resulted in an academic warning or dismissal.

- c. A course grade dispute has been filed with the academic department or instructor or a change in grade which has caused the student's GPA to drop below a 3.0.
- d. Coursework exceeds the six-year time limit for degree completion.
- e. A separation from graduate school has been determined based on the student's academic performance as a graduate student. Academic history reflects student has not maintained favorable academic standing of a 3.0.

Time Limit on Filing and Processing Appeals

- A. **Graduate Studies** - The student must submit the appeal within 10 days after the determination of academic standing.
- B. Students should submit their appeal to request an extension of the six-year timeline to complete their degree program once a decision has been made to return to graduate school. The request is reviewed and forwarded to the appropriate academic unit within three days after the Appeals Committee reviews the request.
- C. Academic units return their recommendation to the Office of Graduate Studies within five to seven days, at which time, the final decision is made by the Appeals Committee and a decision communicated to the student electronically within one to three days.
- D. **Academic Affairs** – The appeal for reconsideration of the academic status of the student must be submitted to Academic Affairs within one week following the decision at Graduate Studies.
- E. Appeals approved based on a request to extend the six-year time limit to complete degree requirements are granted for a period not to exceed one year from the approval date.

Exceptions to these timelines may be considered in exceptional circumstances such as, but not limited to, extended illness, bereavement, etc.

ASSISTANTSHIPS

Graduate Students applying for a graduate assistantship must be admitted as a degree seeking student, have a 3.0/4.0 GPA and enroll in nine (9) semester hours as a full time student. Applying for a Graduate Assistantship does not guarantee the applicant an assistantship. Selected students will be notified by the Office of Graduate Studies. Limited research and graduate assistantships are available. Persons interested should submit a Graduate Assistantship application to the Office of Graduate Studies. All application materials should be completed before applying. Students should also contact the Office of Financial Aid concerning loans, work-study and other possible sources of funding.

CHANGE OF PROGRAM

Students requesting a program change should complete a new application for the respective program. All applications are accessible on the Graduate Studies webpage by clicking the link Apply Online. If previous application documents are on file, are current, and meet required documents for change in program, they will be added to the applicant's new admission packet. The student will receive notification of additional documents needed to complete his/her admission file for the change in program. The application packet will be submitted to the appropriate department for an admission decision. A student's record is updated in Banner if admitted to the new program.

If a student is on academic probation, he or she must improve the cumulative grade point average in the current program to be in good academic standing before applying for a new program. Once the academic probation is satisfied, the application packet will be submitted to the department for an admission decision.

The department will make an admission decision to admit or deny the student. The Office of Graduate Studies will notify the student in writing of the admission decision.

CONTINUITY OF PROGRAM

Students pursuing a degree at the graduate level must enroll each semester to be considered a continuously enrolled graduate student. No break in enrollment must occur. If a graduate student does not attend the university for a semester or more and later wants to return to pursue his/her program of study, he/she must be readmitted. The student must meet the academic requirements in effect as a readmitted student. Graduate programs reserve the right to change course requirements for the degree as long as sufficient notice has been given.

COURSE LOAD

When a student enrolls in courses for credit, a credit load of nine to twelve (9-12) hours is considered full-time for either the fall or spring semester. The maximum load for either Summer I or Summer II session shall be six semester hours credit. Graduate students employed by the university are allowed to enroll in a maximum of 6 semester hours per term. A Remission of Fee form must be completed, signed by the employee's supervisor and submitted to the Office of Graduate Studies for approval. Following approval, the Remission of Fee Form must be submitted to the Business Office with an attached course schedule for the respective semester/term. An official copy is also maintained on file in the Office of Graduate Studies with the student's attached course schedule.

COURSES AT OTHER INSTITUTIONS

Students in attendance in graduate school at Alcorn State University who wish to take courses at another accredited institution may do so providing they have obtained permission from the academic advisor, the chair of the appropriate department or the school dean. Any course taken elsewhere will be considered as part of the total credits allowable for that semester at Alcorn State University. Students must earn a B or better on the course work.

CREDITS TOWARD A GRADUATE DEGREE

A schedule of classes is published each term by the Registrar. Graduate students should plan schedules with their academic advisor prior to registration, based on the courses listed on the Program of Study sheet. Graduate degree credits must be earned through instruction provided by Alcorn State University graduate faculty. Credit hours range from a minimum of 30 semester hours to 60 hours for a master's degree and 39 hours must be earned for the specialist degree.

Typically, courses with the designation of 500 are master's level courses and courses 600 level or higher are usually Specialist level courses. No undergraduate level courses are approved for credit at the graduate level. Students planning to take undergraduate courses must transition to be admitted through Undergraduate Admissions.

DEGREES WITH HONORS

Students graduating with honors will be issued an honor cord which is provided by Academic Affairs. In order for the honor designation to appear in the commencement program, the cumulative grade point average is calculated a semester before graduation.

Honors are conferred as follows:

With Highest Distinction-Candidates who attain a cumulative average of 3.91 - 4.00

With High Distinction - Candidates who attain a cumulative average of 3.81 - 3.90

With Distinction - Candidates who attain a cumulative average of 3.71 - 3.80

DISTANCE LEARNING

All students who register for an online course (main campus, Natchez and Vicksburg campuses) must be the same student who participates in and completes the course or program. Some online instruction may require students to come to campus periodically. Students should check with the online instructor to be sure of the attendance and participation schedule. The identification of students participating in class or coursework is verified, at the discretion of the institution, by such methods as an assigned secure login. This login is also used to access instructional resources. Students who register for distance learning courses must adhere to the attendance policy as set forth by the university.

Resources are provided online and face-to-face to ensure students have many opportunities to acquire technical support for using various distance learning tools and technologies. Students are trained, as well as given technical assistance, to ascertain the technological expertise needed to support their learning efforts by utilizing academic technology staff, the Help Desk and online resources in order to be successful in completing their distance education courses. Special technical assistance sessions are provided to students who require additional time to learn how to use Blackboard and Elluminate for the distance learning environment.

International Students, Distance, Online & Hybrid Course Policy

The U.S. Department of Homeland Security issued important regulations particularly as to international students with F-1 visa status and their participation in registered classes. Alcorn must ensure compliance with the federal requirements, as well as applicable IHL and university policies (See the NAFSA and CFR below). The Provost of the Office for Academic Affairs provides best practices and guidelines to assist valued faculty in the instruction and advising of international students with respect to (i) enrolling/registering in the correct course load requirements; (ii) maintaining international student's good-standing visa status; (iii) ensuring sufficient and adequate "physical presence" in the classroom; and, (v) facilitating timely progress towards degree completion.

3.20.7 Distance education limits (NAFSA manual)

No more than the equivalent of one on-line/distance education class or 3 credits per session may count towards the "full course of study" requirement, if the course "does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class." If the student's course of study is in a language study program, no on-line or distance education classes may be counted toward the full course of study requirement.

8 C.F.R. § 214.2(j)(6)(i)(G)

For F-1 students enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted if taken on-Line or through distance education in a course that does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward classroom hours or credit.

Distance Learning/On-Line Courses

A distance learning or on-line course is one that does not require a(n) international student's physical presence for classes, exams and/or other purposes integral to course completion. At Alcorn, International students may take online classes, but only a maximum of three-credit hours of these may apply to the international student's full-time status each semester. This means only one 3 credit online course per semester may count towards the student's full-time status. Therefore, undergraduate students who are enrolled in twelve credits must take nine of those credits in regular classroom-taught classes and graduate students who are enrolled in nine credits must take six of those credits in traditional classroom-based classes. Hybrid courses are exempt from this classification.

Hybrid Courses

A hybrid course is one that blends online and traditional instruction and requires international students to maintain "physical presence in the classroom," at least partially. At Alcorn, instructors may evidence that international students are meeting the "physical presence" threshold by (I) requiring in-class attendance (a) in the first and last classroom sessions, (b) during classroom examinations, and/or (c) in other specifically-designated classroom sessions, such as a major projects or presentations; or (II) physically monitoring or assigning an approved Alcorn employee to proctor the hybrid class while international students are in the classroom. Hybrid classes where students have the option to either participate online or in-class will be considered 100% online classes if students chose not to be physically present in the classroom.

Summary

- F-1 students are required to take the minimum credit requirements of full-time hours each semester, except in the final semester.
- An international student's lawful F-1 status will be terminated if s/he:
 - *maintains a course load that falls below 12 undergraduate or 9 graduate credit hours;
 - *fails to register for all class sessions during the first registration period;
 - *fail to attend a registered class for which the student receives a UW grade; or,
 - *withdraws from a semester.
- Grades which count towards satisfying the full-time enrollment requirement are A, B, C, D, F, P (Pass), and I(Incomplete* so long as completed within the Catalog-specified limitation period).
- Grades which do not count towards satisfying the "full-time enrollment requirement" are W, UW, audit, and an incomplete (I) grade which becomes an F.
- Failure to comply with the regulation [8 C.F.R. 214.2(f)(6)(i)(G)] violates a student's F-1 status.

Major Take-Away: Registration and Completion is Key

International students must not only pay full-time tuition & fees and enroll in a full course of study at the beginning of each semester, but must also complete a full course of study at the end of each semester.

Alcorn State University offers distance-, on-line-, and hybrid-mediated courses to overcome time and geographical constraints while meeting the access, convenience, flexibility, and time demands of our ever-diversifying community of evening, weekend, working, (non)traditional, digitally-oriented, rural, first-generation, disadvantaged, and international students.

GRADE POINT AVERAGE

A graduate student must maintain a minimum average of 'B' (3.0) while enrolled at Alcorn State University. Graduation guidelines also specify that a student cannot graduate with less than a 3.0 GPA.

GRADUATE ADVISING

All graduate students pursuing a degree are assigned an advisor within the area of endorsement. Each student must meet with his/her academic advisor upon initial admission and at least once a semester thereafter, to discuss his/her program. The student is ultimately responsible for his/her program; however, meeting with an advisor will help to avoid errors in program planning. If no advisor has been assigned, the chairperson or designee will be responsible for the advising. Academic advisement is encouraged for all students, especially prior to registration. Graduate students should consult with their advisor on a regular basis to ensure ongoing monitoring of academic progress, to review the program of study sheet for guidance on a continuous basis and to be issued an Alternate PIN for registration each semester and summer session. The Assistant Vice President for Academic Program Support and Graduate Studies serves as the advisor for Non-Degree students.

GRADUATION

Degrees and diplomas at Alcorn State University are awarded three times a year, August, December, and May. There is no formal ceremony for August or December graduates, but they may elect to participate in the formal commencement ceremony in May. All diplomas are mailed to graduates at least two to four weeks following commencement. Students must apply for graduation; it is not automatic. The Office of Graduate Studies processes all applications for graduation and informs students of their eligibility to graduate. Students must satisfy all progression to graduation requirements before allowed to participate in the May Commencement.

Application for Degree

Students anticipating graduation in the spring should file an application for degree by the last Friday in January. Those anticipating completing degree requirements during the summer should file their application by the second Friday in July and those anticipating completing degree requirements during the fall should file their application by the last Friday in October. Students who fail to submit the application for degree and required documents on time will be deferred until the next graduation cycle.

Participation in Commencement Ceremony

In order for graduate students to participate in the commencement ceremony, students must meet the following requirements:

1. Students must be cleared for graduation by the Office of Graduate Studies to be eligible to participate in the commencement ceremony. Submission of the Application for Degree initiates the clearance process. The students' Progress to Graduation file is reviewed to verify students have met all requirements.
2. To graduate, a student must fulfill requirements specified on the Program of Study sheet and Graduation Checklist.
3. Students who do not wish to participate must notify the Office of Graduate Studies in writing.

Cap and Gown Order Form

All students anticipating graduation and participating in the commencement ceremony must complete a Cap and Gown Order Form. This form is located online on the Academic Affairs website at www.alcorn.edu/academics.

INCOMPLETE GRADES

A graduate student who fails to remove an incomplete grade will have a hold placed on his/her account after the expiration date (60 days for currently enrolled students and 13 months for non-enrolled students) to have the grade changed to a passing grade. The 'graduate hold' will remain until the student has satisfied the tenets of this policy. "A hold" will prevent a student from registering for the desired semester.

The incomplete grade will remain on the student's transcript until an assigned grade change form is submitted to the Registrar's Office.

The Office of Graduate Studies has adopted the following policy guidelines concerning the awarding of a grade of *Incomplete* in a graduate level course. Students must make every effort to clear all *incomplete* grades within the specified timelines.

The term 'incomplete' is used when a student does not complete class assignments as a result of being absent from examination because of sickness, emergency absence due to death in the family, or away from campus a great deal for justifiable reasons, thus giving the instructor no other alternative but to issue the student an 'incomplete' grade. Assignment of an incomplete grade is at the discretion of the course instructor. Students should not request an incomplete grade unless they are unable to complete the work because of sudden illness, personal emergency, or other good cause. An incomplete grade is not to be regarded as the solution to poor performance in a course.

ENROLLED STUDENTS - A student whose work has been marked "Incomplete" must remove the mark within 60 days after the beginning date of the student's next enrollment in residence.

NON-ENROLLED STUDENTS - An incomplete grade must be removed within 13 months after the grade is recorded even if the student fails to enroll.

If the "Incomplete" is not removed within this period, the student will receive a grade of "F." It is the student's responsibility to communicate with his/her professor to get an "I" removed by the established timeline. Failure to act on the student's part will result in the failure grade being posted to the student's transcript. After the student has satisfied the incomplete work in question, the instructor must complete a "Change in Grade Form" following approval by Academic Affairs and submit it to the Registrar's Office before expiration of the 60 days (enrolled students) and or 13 months (non-enrolled students).

A grade other than an incomplete may be changed only if an error of calculation or recording as verified by the official roll book. The department chairperson, school dean, and the Provost/Vice President for Academic Affairs must approve all changes of grades.

A graduate student who fails to follow the required process to remove an incomplete grade will have a hold placed on his/her account after the expiration date (60 days for currently enrolled students and 13 months for non-enrolled students) to have the grade changed to a passing grade. This 'graduate hold' will remain until the student has satisfied the tenets of this policy. "A hold" will prevent a student from registering for the desired semester.

The 'Incomplete' grade will remain on the student's transcript until an assigned grade change form is submitted to the Registrar's Office within the required time period.

PLAGIARISM

Honesty requires that any ideas or materials taken from another for either written or oral use must be fully acknowledged. Offering the work of someone else as one's own is plagiarism. The language or ideas thus taken from another may range from isolated formulas, sentences, or paragraphs, to entire articles copied from books, periodicals, speeches, or the writings of other students. The offering of materials assembled or collected by others

in the form of projects or collections without acknowledgement also is considered **plagiarism**. **Any student who fails to give credit for ideas or materials that he takes from another is guilty of plagiarism.**

PROGRAM OF STUDY

All graduate students must submit a Program of Study sheet to the Office of Graduate Studies for approval by the Assistant Vice President for Academic Program Support and Graduate Studies during the first semester of enrollment. The form must be completed bearing the student's signature, the student's advisor and chair of the department or the dean's signature. The form should show the courses to be taken, the term of enrollment, and a satisfactory grade to meet the requirements of the Office of Graduate Studies and to satisfy requirements for the degree. Any transfer courses approved by the student's advisor Thesis option and/or Internship should also be on this form. Students are required to submit a revised program of study form if changes are made in their program of study.

STUDENT FINANCIAL OBLIGATION

Students are expected to pay, in full, all costs for a given term before or during the time of registration. Any students or former students who are indebted to the university may not register at the university, graduate from the university nor will their transcript be released until the debt is paid.

TIME LIMITATIONS

All requirements for the Master of Science degree or Specialist degree, including transfer credits, must be completed within six years from the beginning of the first term in which credit was earned toward the degree. Students exceeding this timeline may submit a request for an exception consideration by the Graduate Appeals Committee.

TIME LIMITATION EXTENSIONS

Extenuating circumstances may arise to prevent a graduate student from completing his/her program of study within the six-year time limit. If this occurs, a student may petition the Assistant Vice President for Academic Program Support and Graduate Studies for an exception. Sufficient evidence or reasons must be communicated in this request outlining why the program of study was not completed within the specified time limit. An Appeals Committee will review this request and render approval or denial of this request. If an extension is granted, only one will be approved for a maximum time span of one year.

TRANSCRIPTS

Students are required to submit an official copy of their transcript(s) in their application for admission and upon application of degree for graduation. Students are allowed one free transcript at the posting of the student's degree following graduation which is included in tuition.

Transcripts will not be released to a student who has a financial debt to Alcorn State University.

TRANSFER OF CREDIT

Regardless of the degree option selected by the student, a minimum of 27 semester hours for the master's degree and 33 semester hours for the specialist degree must be earned in residence at Alcorn State University.

The unconditionally admitted student is allowed to transfer a maximum of six semester hours of graduate credit from an accredited institution in which grades of 'B' or better are earned. These courses must have been taken at an accredited graduate degree-granting institution. All credits to be transferred should be approved by the student's

academic advisor, department chairperson and the administrator of the Office of Graduate Studies. Official transcripts of transfer credits must be on file at the university prior to acceptance of the transfer credits for approval. The student's advisor must submit the appropriate Transfer of Credits form and official transcript from the transfer university to the Office of Graduate Studies for approval. Following, the approved courses will be posted to the student's transcript.

Courses are not allowable for transfer to Alcorn to replace deficient grades received in the student's program of study.

Graduate nursing students are allowed to transfer a maximum of 12 semester hours of graduate credit in which grades of 'B' or better are earned. Exceptions will be considered on an individual basis.

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Math and Science Building 2nd Floor
1000 ASU Drive #960
601-877-6681 FAX 601-877-3989

Degrees Offered

Degree	Required Admission Test
M. S. in Biology	GRE General Test
M.S. in Secondary Education: Biology	Standard Educator License
M.S. in Secondary Education: Chemistry	Standard Educator License
M.S. in Secondary Education: Science	Standard Educator License
M.S. in Secondary Educating: English	Standard Educator License
M. S. in Computer and Information Sciences	GRE General Test
M.S. in Secondary Education: Mathematics	Standard Educator License
M.S. in Secondary Education: Music	Standard Educator License
M.S. in Secondary Education: Social Science	Standard Educator License

DEPARTMENT OF BIOLOGICAL SCIENCES

Voletta Williams, Ph.D., Interim Department Chairperson
 Math and Science Building, 3rd Floor
 1000 ASU Drive #870
 Phone: 601-877-6235 FAX: 601-877-2328

Graduate Faculty

- Alexander Acholonu**, Professor of Biology, B. S., Howard University; M.S., Prairie View A&M University; Ph.D., Colorado State University
- Jon Ignacio Moreno**, Assistant Professor of Biology, B.S., University of Buenos Aires; Ph.D., University of Buenos Aires
- Keith McGee**, Associate Professor of Biology, B.S., Mississippi State University; Ph.D., University of Southern Mississippi
- Jon Ignacio Moreno**, Assistant Professor of Biology, B.S., University of Buenos Aires; Ph.D., University of Buenos Aires
- Babu Patlolla**, Interim Dean, School of Arts and Sciences and Professor of Biology, B.S., Osmania University; M.S., Omania University; M.S., Jackson State University; Ph.D., Jackson State University
- Marta Piva**, Associate Professor of Biology, B.S., University of Buenos Aires, Argentina; M.A., University of Buenos Aires, Argentina; Ph.D., University of Buenos Aires, Argentina
- Shenika Poindexter**, Assistant Professor of Biology, B.S., Alcorn State University; Ph.D., Vanderbilt University
- Robert Sizemore**, Professor of Biology, B.S., University of Kentucky; M.S., Kentucky; Ph.D., University of Louisville
- Voletta Williams**, Interim Chairperson of Biological Sciences and Professor of Biology, B.S., Alcorn State University; M.S.Ed., Alcorn State University; Ph.D., Jackson State University

M. S. Zaman, Professor of Biology, B.S., Texas Woman's University; M.S., Texas Woman's University; M.S.S.E., Texas Woman's University; Ph.D., Texas Woman's University

MASTER OF SCIENCE IN BIOLOGY

Program Description

This curriculum is designed primarily to accommodate students who wish to pursue a Master of Science (M.S.) degree in Biology. This program supports a broad range of student needs and interests. This program will serve students who wish to pursue advanced study towards a doctoral degree or prepare for a professional career.

Mission Statement of Master of Science in Biology Program

The mission of the Master of Science degree in Biology is to equip students with advanced scientific knowledge and skills necessary to pursue doctoral programs and professional careers in biological sciences. The M.S. program in biology consists of classroom instruction at an advanced level, along with mentored scholarly pursuit of new knowledge leading to the preparation of a thesis document or a special project paper. The graduate program intends to prepare creative scientists with a good theoretical background, training in research techniques, and communication skills required to disseminate the research results including the significance of such research work in relation to the human environment.

Student Learning Outcomes / Objectives

A student completing a Master of Science in Biology will:

- Broaden his/her knowledge in a discipline related to his/her thesis research.
- Be able to state clearly the research goals or objectives, hypothesis, and explain the significance of his/her planned thesis research work.
- Organize and interpret the results generated from his/her research in a thesis consistent with the guidelines set by ASU's Office of Graduate Studies.
- In case of Non-Thesis, a student will develop a project paper on review of literature on a selected research topic or idea.
- Be able to prepare and submit an abstract of his/her research work to a national / regional / state research conference; and be able to make a quality oral or poster presentation at a designated conference.
- Be capable of communicating his/her research finding in the form of a research manuscript for publication in a scientific journal.
- Be capable of relating his/her knowledge in biological science in daily life, and utilize inquiry.
- Based methodologies to gain a good understanding of professional practices and responsibilities for the community at large.
- Be able to gain admission to a doctoral degree program at a university of his/her choice or will enhance his/her success in seeking admission into a professional program.
- Enhance student's likelihood of success in finding employment at workplace related to biological or life sciences;
- Gain employment at teaching institutions such as secondary schools or junior colleges, or occupational/technical/vocational schools.

Program Requirements:

A student must meet all requirements for graduate admission as described in the Alcorn State University Graduate Catalog. This program requires completion of 33 semester credit hours of course work spread as follows: 12 semester graduate hours as Core; 9 semester graduate hours as Required Electives, and 12 semester graduate hours as Electives.

Courses under required or elective group must be approved by the student's Faculty Research Advisor (FRA) and shall be selected from the graduate courses in biology or related areas that are offered during the time the student is in residence. For the benefit of the student, a suggested list of Required and Elective courses is given. The Director of Biology Graduate Program or the Chairperson of the Department of Biological Sciences must approve all courses before registration. By the end of the first semester, the student must indicate his/her preference for a FRA. The FRA must be a member of the graduate faculty. The FRA (in consultation with the student) will select other members of the Thesis Research Advisory Committee (TRAC). This Committee must be approved by the Department Chair and communicated to the office of the Dean of Graduate Studies.

Each prospective graduate student must submit a written statement of planned research (Research Proposal) to the FRA. This document must be carefully prepared in consultation with the student's FRA. It must present in a concise and literate manner the research problem that a student plans to investigate as part of her/his Thesis research. The proposal should not be more than ten (10) pages, typewritten, and double-spaced, including references which may be single-spaced.

Upon completion of the proposed thesis research work under the guidance of a designated FRA, a student must prepare a Master's Thesis document. The Thesis should reflect a student's competence in conceptualization of research, experimental designs, and selection of appropriate statistical methods to process, analyze, and interpret research data. The student is also encouraged to prepare a manuscript based on his/her research work for possible publication in a peer reviewed scientific journal. Prior to the approval of the Thesis, a student must defend his/her research work by making an oral presentation before the members of the TRAC. The FRA may invite other faculty members and members of the graduate class in biology to attend such thesis defense.

ASU-Pennsylvania State University Bridges to Doctoral Program

ASU graduate students enrolled in a M.S. degree program in Biology are provided with a unique opportunity to continue their graduate work at Penn State University to earn a doctoral degree in selected biomedical sciences. A student pre-identified as an ASU-PSU Bridges Scholar will: a) take graduate courses in the first two semesters at Alcorn State University; b) enroll at Penn State as ASU-PSU Bridges participant in the summer and fall semester for extended research experiences, and taking two pre-selected courses; c) return to Alcorn State University for one more semester to write and defend Thesis. Upon completion of the M.S. degree program at Alcorn, ASU-Penn scholar will enter into a Ph.D. program at Penn State. Up to 6 semester hours earned at Penn State will be transferred to ASU. All selected ASU students are provided competitive stipends and tuition with continued enrollment in the program. Travel expenses as appropriate will be paid. Expenses while ASU-PSU Bridges Scholar is at Penn State in summer and fall semester will be borne by Bridges program. Interested students may visit <http://vetsci.psu.edu/bridges.cfm> for additional information.

Interested students are required to submit a letter of intent to the Chair, Department of Biological Sciences, along with all documentation at the beginning of his/her graduate program.

Transfer Credits

A graduate student may transfer up to 6 semester graduate credit hours earned in an accredited graduate program.

Course Requirements

Core Biology Courses (12 Sem. Hours)		Credits
BI 507	Advanced Cellular & Molecular Biology	3 hrs.
BI 523	Advanced Biostatistics	3 hrs.
BI 599	Thesis I	3 hrs.
BI 600	Thesis II	3 hrs.
Required Electives (Select 9 Sem. Hours)		Credits
BI 536	Bioethics	3 hrs.
BI 540	Molecular Genetics	3 hrs.
BI 525	Advanced Immunology	3 hrs.
BI 526	Advanced Pharmacology	3 hrs.
BI 598	Biology Research Instrumentation	3 hrs.
General Electives (Select 12 Sem. Hours)		Credits
BI 500	Advanced Parasitology	3 hrs.
BI 501	Advanced Plant Physiology	3 hrs.
BI 502	Advanced Plant Pathology	3 hrs.
BI 503	Mycology	3 hrs.
BI 509	Current Literature Topics in Biology	3 hrs.
BI 515	Computer Application in Biology	3 hrs.
BI 522	Natural History of the Animal Kingdom	3 hrs.
BI 525	Advanced Immunology	3 hrs.
BI 531	Advanced Invertebrate & Vertebrate Zoology	3 hrs.
BI 546	Advanced Histology	3 hrs.
BI 547	Advanced Field Biology & Ecology	3 hrs.
BI 550	Graduate Research Methods & Seminar	3 hrs.
BI 560	Advanced Modern Problems in Biology	3 hrs.
BI 581	Advanced Toxicology	3 hrs.
BI 590	Advanced Environmental Biology	3 hrs.
TOTAL		33 hrs.

MASTER OF SCIENCE IN BIOLOGY NON-THESIS OPTION

Program Description

This program is designed for students who do not plan to pursue a research-based career but need an advanced degree in biology to move up in their career ladder. However, these candidates will be introduced to basics in research such as defining a research problem, review of research literature, gain knowledge of laboratory techniques and research methods such as data acquisition, statistical analysis, and data interpretation. For this purpose, non-thesis students are required to take BI 597 Special Project and submit a Research Review Paper on selected topics in biological sciences.

Course Requirements

The student must meet all requirements for graduate admission as described in the Alcorn State University Graduate Catalog. The student will be required to complete 33 graduate credit hours: 12 semester graduate hours as Core (including BI 597 Special Project), 6 semester graduate hours as Required Electives, and 15 semester graduate hours as General Electives.

The required Core Courses for Non-Thesis Option are different from that of the Thesis Option.

Core Biology Courses (12 Sem. Hours)		Credits
BI 507	Advanced Cellular & Molecular Biology	3 hrs.
BI 523	Advanced Biostatistics	3 hrs.
BI 540	Molecular Genetics	3 hrs.
BI 597	Special Project	3 hrs.
Required Electives (Select 6 Sem. Hours)		Credits
BI 525	Advanced Immunology	3 hrs.
BI 536	Bioethics	3 hrs.
BI 550	Graduate Research Methods and Seminar	3 hrs.
BI 560	Advanced Modern Problems in Biology	3 hrs.
BI 598	Biology Research Instrumentation	3 hrs.
General Electives (Select 15 Sem. Hours)		Credits
BI 500	Advanced Parasitology	3 hrs.
BI 501	Advanced Plant Physiology	3 hrs.
BI 502	Advanced Plant Pathology	3 hrs.
BI 503	Mycology	3 hrs.
BI 509	Current Literature Topics in Biology	3 hrs.
BI 515	Computer Applications in Biology	3 hrs.
BI 526	Advanced Pharmacology	3 hrs.
BI 531	Advanced Invertebrate & Vertebrate Zoology	3 hrs.
BI 546	Advanced Histology	3 hrs.
BI 547	Advanced Field Biology & Ecology	3 hrs.
BI 581	Advanced Toxicology	3 hrs.
BI 590	Advanced Environmental Biology	3 hrs.
TOTAL		33 hrs.

- Note:**
1. Required Electives can be used as General Electives.
 2. The courses used in one master's degree program cannot be applied toward a second master's or advanced degree program. When in doubt, consult the Chairperson of the Department of Biological Sciences.

MASTER OF SCIENCE IN BIOLOGY ONLINE OPTION

Program Description

This program offers an online Master of Science in Biology program that will be completely web-based. The program provides the opportunity to gain advanced education and training in the Biological Sciences leading to the enhancement of knowledge and preparing students to pursue careers in a variety of fields. The program exposes students to a wide range of online courses providing a well-rounded graduate education.

Essential Knowledge and Skills:

Students must have completed a Bachelor of Science Degree in an area of Biology or in a closely related area. Many of the online courses in the curriculum are advanced courses. To be successful, students must have the appropriate academic background and should be proficient with the use of computers and the Internet.

Who the Program Is for:

The online Master of Science Degree Program in Biology is designed for non-traditional students with a desire to complete an advanced degree via distance learning. The highlight of this program is its flexibility with scheduling, cost effectiveness, and overall convenience.

Delivery Format

The program is designed to be completely web-based with course offerings in a sixteen-week session during an Academic Calendar Year (fall and spring semesters) and two four-week sessions during the summer. The program will require the completion of 33 credit hours with a minimum 3.0 Grade Point Average (GPA).

Orientation

Online instructions will be delivered using the “Blackboard” platform. This is a user-friendly platform with online tutorials to aid with the maneuverability of course materials. Students can also seek assistance from Blackboard Helpdesk and Blackboard Support Team.

Interaction with professors and other students

Students will be encouraged to maintain effective communication with instructors and advisors via email and Blackboard Collaborate throughout the duration of the course. Additionally, students may interact with peers in the course via Blackboard Discussion board and other means available through Blackboard.

Technology and Computer Skills

Students must have access to a reliable computer with a minimum recommended specification of Windows-7 or OSX, 4 GB of RAM and updated JAVA. Students should be able to download instructional materials (Word files, pdf documents, audio-visual media files), upload assignments and take online examinations using Blackboard. Using this type of technology for coursework requires a dependable and high-speed internet connection.

Advising

Student advisement will be available via email and telephone. Advisors will have access to student records and registration pins.

The Degree Plan

(Includes length of program, curriculum, learning resources, etc.)

Students will have the opportunity to complete the program in one year provided they attend full-time (Fall, Spring, and both summer sessions). Part-time graduate students should be able to complete the program in two years based upon their course load(s) and work pace. Students are encouraged to use online university resources such as library, counseling, writing center, student support services, etc. during their tenure at the university.

Assessments

Students must successfully complete 33 credit hours of core and elective courses including BI-597 (Special Research Project) to complete this program. Students must not receive more than two grades of “C” and must maintain at least a minimum GPA of 3.00. Students with an “Analytical” GRE score less than 3.0, must enroll in ST 597 (an online technical writing course), or EN 500 (Teaching Writing) or AN 501 (Technical Writing in Agriculture) to fulfill their writing proficiency requirement. EN 500 and AN 501 are contact courses only. Students are to maintain at least a “B” in ST 597/EN 500/AN 501, and this is in addition to the 33 hour required curriculum. Students may also meet the requirement by passing the English writing proficiency exam administered by the Department of Biological Sciences. This proficiency exam will be administered at the Alcorn State University’s main campus. Prior arrangement to take the writing exam should be made with the academic advisor.

Course Requirements

The student must meet all requirements for graduate admission as described in the Alcorn State University Graduate Catalog. The student will be required to complete 33 graduate credit hours: 12 semester graduate hours as Core (including BI 597 Special Project), 6 semester graduate hours as Required Electives, and 15 semester graduate hours as General Electives.

The required Core Courses for Non-Thesis Option are different from that of the Thesis Option.

Core Biology Courses (12 Sem. Hours)		Credits
BI 507 OL	Advanced Cellular & Molecular Biology	3 hrs.
BI 523 OL	Advanced Biostatistics	3 hrs.
BI 591 OL	Advanced Anatomy and Physiology	3 hrs.
BI 597 OL	Special Project	3 hrs.
Restricted Elective Courses (21 Sem. Hours)		Credits
BI 501 OL	Advanced Plant Physiology	3 hrs.
BI 525 OL	Advanced Immunology	3 hrs.
BI 560 OL	Modern Problems in Biology	3 hrs.
BI 515 OL	Computer Applications in Biology	3 hrs.
BI 526 OL	Advanced Pharmacology	3 hrs.
BI 531 OL	Advanced Invertebrate Zoology	3 hrs.
BI 546 OL	Advanced Histology	3 hrs.
TOTAL		33 hrs.

Biology Course Descriptions (BI)

BI	500	3 hrs.	ADVANCED PARASITOLOGY An advanced study of the morphological and physiological characteristics of organisms that live in the vectors of the organisms.
BI	501	3 hrs.	ADVANCED PLANT PHYSIOLOGY Advanced study of metabolism, mineral nutrition, absorption and translocation, respiration, photosynthesis, transpiration, plant hormones, flower parts, growth and reproduction in plants. Students will also learn about planting seeds, seed maturation, seed germination, seed storage, relation between seed and quality crop production in the field; study of fruits and seed and fruit dispersals. Pre-requisite: BI 124 or BI 324, CH 122. This course is specifically designed to meet the needs of agricultural and related science majors.
BI	502	3 hrs.	ADVANCED PLANT PATHOLOGY Advanced study of selected diseases of important field and garden crops. Students study in detail representative plant diseases commonly observed on field crops, garden crops, fruit and vegetable crops caused by different pathogens, disease development, epidemiology and control of diseases. Pre-requisite : BI 124.
BI	503	3 hrs.	MYCOLOGY This course deals with fungi from a cultural, ecological, phylotype, and phylogenetic perspective. It will involve the taxonomy, habitat, structure, physiology, and adaptation of fungi.
BI	507	3 hrs.	ADVANCED CELLULAR AND MOLECULAR BIOLOGY A study designed to provide a deeper insight and understanding of the cellular and molecular functions. Emphasis is placed on control and regulatory mechanisms of various cellular activities such as metabolic, genetic, and bio-energetic mechanisms.
BI	509	3 hrs.	CURRENT LITERATURE TOPICS IN BIOLOGY This course deals with current and emerging problems of global significance that are identified through scientific research. It takes under consideration both scientific and technical problems that exist currently. It discusses consequences and opportunities available through scientific and technological capabilities of today's world. Students study the contributions made towards resolution of these problems. Students study department faculty members' representative research publications.
BI	515	3 hrs.	COMPUTER APPLICATIONS IN BIOLOGY This course provides introduction to computer applications in the biological sciences. The three major applications involved in this course are data interpretation, presentation in appropriate formats, charts, graphs, tables, database usage, and statistical analysis.
BI	522	3 hrs.	NATURAL HISTORY OF THE ANIMAL KINGDOM This course is designed to provide the student with information on animal density and diversity. It shows the student the basic principles that control population dynamics, animal dispersal, evolutionary trends, and the changes that have occurred over centuries of animal development. The focus of the course deals with global changes and how these changes are causing the species diversity that exists today.

BI	523	3 hrs.	ADVANCED BIOSTATISTICS Methods of collection, tabulation, analysis, and application of biological data specifically related to various problem solving activities in biology using descriptive statistics probability theory and statistical inference.
BI	525	3 hrs.	ADVANCED IMMUNOLOGY Basic mechanism of immune responses will be presented from a theoretical basis. Students will be assigned several research articles to read covering both classic and current studies in immunology and will discuss the experiment data and conclusions in class. Students learn the historical significance of these studies as well as, the methodology used to determine the results.
BI	526	3 hrs.	ADVANCED PHARMACOLOGY This course is designed to study various classes of drugs relative to their specific mechanisms of action and clinical application.
BI	531	3 hrs.	ADVANCED INVERTEBRATE & VERTEBRATE ZOOLOGY This course is designed to provide the student with a broad background dealing with the taxonomy, locomotion, feeding habits, mode of life, and adaptive biology of invertebrates. In addition, anatomical, physiological, and embryological descriptive details are discussed and compared for various groups of animals.
BI	536	3 hrs.	BIOETHICS This course introduces students to the history of bioethics, role of various theories and approaches in medical, environmental and technological bioethics as well as critical issues related to novel technologies including: genetically engineered food crops, cloning, stem cell therapies, and nanotechnology. This course will also include discussions with examples on ethical questions that arise in the relationships between life sciences, biotechnology and medicine.
BI	540	3 hrs.	MOLECULAR GENETICS This course explores the molecular basis of heredity with a focus on the structure and function of genes, mutations and their effect on the phenotype, genetic analysis of prokaryotes and lower eukaryotes, gene transfer, and selection, plasmids, plasmid analysis, genetic recombination, and non-Mendelian patterns of inheritance, particularly the organization of the mitochondrial genome. In the laboratory component, students learn basic molecular genetics techniques such as: bacteria transformation and selection, plasmid preparation, restriction analysis of plasmids, agarose gel electrophoresis, endpoint polymerase chain reaction, primer design, and basic yeast genetics techniques: mating, sporulation, diploid selection, tetrad dissection and allele segregation. Pre-requisites: BI 327, 327L; Cell Biology, CH 331 & CH 331L; Introduction to Biochemistry, and BI 445, BI 445L Genetics.
BI	546	3 hrs.	ADVANCED HISTOLOGY An advanced study of the microscopic and chemical structures of organs, tissues, and their cellular constituents.
BI	547	3 hrs.	ADVANCED FIELD BIOLOGY AND ECOLOGY An advanced study of environmental factors influencing the distribution of plants and animals including the interrelationships of terrestrial and aquatic ecosystems, concentrating on biological, physical, and chemical relationships.

BI	550	3 hrs.	GRADUATE RESEARCH METHODS AND SEMINAR A survey of current research articles with emphasis on techniques, the scientific method, and basic research. Lectures will cover the fundamentals of research and the study of several scientific manuscripts encompassing various areas of biology. Students will also be required to present data from other published scientific papers as a part of a seminar series. Students will be introduced to selected high precision research methodologies adopted in the laboratories of departmental faculty members.
BI	560	3 hrs.	ADVANCED MODERN PROBLEMS IN BIOLOGY This course encompasses numerous areas concerning new and developing issues in biological sciences. Students are required to address several topics assigned in class and in addition, describe what they think are “modern problems.” Although the course is designed to allow students independence in selecting certain topics, it also enables them to learn how to read and interpret scientific articles and to present those articles to the class.
BI	581	3 hrs.	ADVANCED TOXICOLOGY This course is designed to fill the need for a comprehensive source of information concerning toxicology. It presents a definite description of basic concepts and methods employed in environmental toxicology studies as well as examples of typical data and its interpretation. Specific topics covered in this course include: toxicity of genetic types of chemicals (such as pesticides and metals) to organisms, the distribution and fate of chemicals in the environment.
BI	585	3 hrs.	METHODS OF TEACHING SCIENCE This course presents the methods of teaching science in the secondary school, placing emphasis upon the integration of the curriculum and the individual in a democracy. It seeks to provide experiences leading to the creation of dynamic classroom conditions for effective teaching – essentially a special methods course dealing with techniques and procedures on the high school level. Students will be required to prepare teaching units, lesson plans, examinations, and to observe classroom teaching in nearby schools.
BI	590	3 hrs.	ADVANCED ENVIRONMENTAL BIOLOGY An advanced study of specific ecological problems, research methodology and techniques, and solutions of local and national environmental problems.
BI	591	3 hrs.	ADVANCED ANATOMY AND PSYSIOLOGY This is a one-semester graduate course in Human Anatomy & Physiology. This course is designed to provide advanced concepts in human anatomy and physiology for students who plan to pursue careers in education, biology, biotechnology, medical technology, dentistry, physical therapy, nursing, or medicine.
BI	597	3 hrs.	SPECIAL RESEARCH PROJECT This course involves individual investigation of a specific problem in biology or related area. This includes extensive survey of literature to write a professional paper based on research data. The student will work under the supervision of biology Faculty Research Advisor (FRA) and bound copies of the completed work will be submitted to the Office of Graduate Studies as a requirement of Non-thesis M.S. degree program. Consent of the FRA is required.

BI	598	3 hrs.	BIOLOGY RESEARCH INSTRUMENTATION This is a laboratory-based course where students will learn the theory and practice behind techniques and instruments commonly used in modern biological research with special emphasis on detection, quantification, and analysis of nucleic acids and proteins, enzymatic assays, fluorescent microscopy, cell structure, and aseptic technique. Students will learn basic experimental design and methods, and will be expected to present their experiences in a seminar format. Pre-requisites: BI 327, BI 327L, CH 330, CH 330L, or instructor's permission.
BI	599	3 hrs.	THESIS I This course is designed to prepare candidates for a Master of Science Degree Program. It assists students in preparing a research proposal that is a pre-requisite before beginning actual thesis research work.
BI	600	3 hrs.	THEIS II This course is required for students in the Master of Science Degree Program. Its main thrust is to assist students in preparing a written document of their research work in an acceptable thesis format. Students will defend their research work before the graduate committee.

ENDORSEMENT AREA: BIOLOGY EDUCATION

Degree

Secondary Education Masters: Biology

Requirement for Admission

Standard Educator License

Program Description

The Department of Biological Sciences offers "AA" endorsement in Biology as part of the Master of Science in Education degree in Secondary Education. In this program, a student has the option to become certified in Biological Sciences. The objectives for biology education are to:

1. Provide all students with a knowledge of biology necessary for a career in secondary education;
2. Provide a foundation for careers in research, industry, and the health professions;
3. Pursue programs of study leading to other advanced degrees in Biological Sciences or related areas.

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Education.	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.

Generally Required Courses (12 Hrs.)		Credits
BI 509	Current Literature Topics in Biology or	3 hrs.
BI 597	Special Research Project	
BI 507	Advanced Cellular & Molecular Biology	3 hrs.
BI 523	Advanced Biostatistics	3 hrs.
BI 585	Methods of Teaching Science	3 hrs.
Electives (9 Hours)		Credits
BI 500	Advanced Parasitology	3 hrs.
BI 501	Advanced Plant Physiology	3 hrs.
BI 502	Advanced Plant Pathology	3 hrs.
BI 525	Advanced Immunology	3 hrs.
BI 526	Advanced Pharmacology	3 hrs.
BI 531	Advanced Invertebrate & Vertebrate Zoology	3 hrs.
BI 536	Bioethics	3 hrs.
BI 540	Molecular Genetics	3 hrs.
BI 546	Advanced Histology	3 hrs.
BI 547	Advanced Field Biology and Ecology	3 hrs.
BI 560	Advanced Modern Problems in Biology	3 hrs.
BI 581	Advanced Toxicology	3 hrs.
BI 590	Advanced Environmental Biology	3 hrs.
BI 598	Biology Research Instrumentation	3 hrs.
GS 503	Advanced Evolution	3 hrs.
ED 521	Classroom Management	3 hrs.
ED 527	Evaluation and Measurement in Schools	3 hrs.
PH 525	Psychology of the Exceptional Child	3 hrs.
TOTAL		33 hrs.

Biology Course Descriptions (BI)

- BI 500 3 hrs. **ADVANCED PARASITOLOGY**
An advanced study of the morphological and physiological characteristics of organisms that live in the vectors of these organisms.
- BI 501 3 hrs. **ADVANCED PLANT PHYSIOLOGY**
Advanced study of metabolism, mineral nutrition, absorption and translocation, respiration, photosynthesis, transpiration, plant hormones, flower parts, growth and reproduction in plants. Students will also learn about planting seeds, seed maturation, seed germination, seed storage, relation between seed and quality crop production in the field; study of fruits and seed and fruit dispersals. Pre-requisite: BI 124 or BI 324, CH 122. This course is specifically designed to meet the needs of agricultural and related science majors.
- BI 502 3 hrs. **ADVANCED PLANT PATHOLOGY**
An advanced study of selected diseases of important field and garden crops. Students study in detail representative plant diseases commonly observed on field crops, garden crops, fruit and vegetable crops caused by different pathogens, disease development, epidemiology and control of diseases. Pre-requisite : BI 124.

- BI 503 3 hrs. **MYCOLOGY**
This course deals with fungi from a cultural, ecological, phylotype, and phylogenetic perspective. It will involve the taxonomy, habitat, structure, physiology, and adaptation of fungi.
- BI 507 3 hrs. **ADVANCED CELLULAR AND MOLECULAR BIOLOGY**
A study designed to provide a deeper insight and understanding of the cellular and molecular functions. Emphasis is placed on control and regulatory mechanisms of various cellular activities such as metabolic, genetic, and bio-energetic mechanisms.
- BI 509 3 hrs. **CURRENT LITERATURE TOPICS IN BIOLOGY**
This course deals with current and emerging problems of global significance that are identified through scientific research. It takes under consideration both scientific and technical problems that exist currently. It discusses consequences and opportunities available through scientific and technological capabilities of today's world. Students study the contributions made towards resolution of these problems. Students study department faculty members' representative research publications.
- BI 523 3 hrs. **ADVANCED BIOSTATISTICS**
Methods of collection, tabulation, analysis, and application of biological data specifically related to various problem solving activities in biology using descriptive statistics probability theory and statistical inference.
- BI 525 3 hrs. **ADVANCED IMMUNOLOGY**
Basic mechanism of immune responses will be presented from a theoretical basis. Students will be assigned several research articles to read covering both classic and current studies in immunology and will discuss the experiment data and conclusions in class. Students learn the historical significance of these studies as well as, the methodology used to determine the results.
- BI 526 3 hrs. **ADVANCED PHARMACOLOGY**
This course is designed to study various classes of drugs relative to their specific mechanisms of action and clinical application.
- BI 531 3 hrs. **ADVANCED INVERTEBRATE & VERTEBRATE ZOOLOGY**
This course is designed to provide the student with a broad background dealing with the taxonomy, locomotion, feeding habits, mode of life, and adaptive biology of invertebrates. In addition, anatomical, physiological, and embryological descriptive details are discussed and compared for various groups of animals.
- BI 536 3 hrs. **BIOETHICS**
This course introduces students to the history of bioethics, role of various theories and approaches in medical, environmental and technological bioethics as well as critical issues related to novel technologies including; genetically engineered food crops, cloning, stem cell therapies, and nanotechnology. This course will also include discussions with examples on ethical questions that arise in the relationships between life sciences, biotechnology and medicine.
- BI 540 3 hrs. **MOLECULAR GENETICS**
This course explores the molecular basis of heredity with focus on the structure and function of genes, mutations and their effect on the phenotype, genetic analysis of prokaryotes and lower eukaryotes, gene transfer, and selection, plasmids, plasmid

analysis, genetic recombination, and non-Mendelian patterns of inheritance, particularly the organization of the mitochondrial genome. In the lab component, students learn basic molecular genetics techniques as; bacteria transformation and selection, plasmid preparation, restriction analysis of plasmids, agarose gel electrophoresis, end-point polymerase chain reaction, primer design, and basic yeast genetics techniques: mating, sporulation, diploid selection, tetrad dissection and allele segregation. Pre-req.: BI 327, BI 327L Cell Biology, CH 331 & CH 331L Intro to Biochem, and BI 445, BI 445L Genetics.

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|----|-----|--------|---|
| BI | 546 | 3 hrs. | ADVANCED HISTOLOGY
An advanced study of the microscopic and chemical structures of organs, tissues, and their cellular constituents. |
| BI | 547 | 3 hrs. | ADVANCED FIELD BIOLOGY AND ECOLOGY
An advanced study of environmental factors influencing the distribution of plants and animals including the interrelationships of terrestrial and aquatic ecosystems, concentrating on biological, physical, and chemical relationships. |
| BI | 560 | 3 hrs. | ADVANCED MODERN PROBLEMS IN BIOLOGY
This course encompasses numerous areas concerning new and developing issues in biological sciences. Students are required to address several topics assigned in class and in addition, describe what they think are “modern problems.” Although the course is designed to allow students independence in selecting certain topics, it also enables them to learn how to read and interpret scientific articles and to present those articles to the class. |
| BI | 581 | 3 hrs. | ADVANCED TOXICOLOGY
This course is designed to fill the need for a comprehensive source of information concerning toxicology. It presents a definite description of basic concepts and methods employed in environmental toxicology studies as well as examples of typical data and its interpretation. Specific topics covered in this course include: toxicity of generic types of chemicals (such as pesticides and metals) to organisms; the distribution and fate of chemicals in the environment. |
| BI | 585 | 3 hrs. | METHODS OF TEACHING SCIENCE
This course presents the methods of teaching science in the secondary school, placing emphasis upon the integration of the curriculum and the individual in a democracy. It seeks to provide experiences leading to the creation of dynamic classroom conditions for effective teaching – essentially a special methods course dealing with techniques and procedures on the high school level. Students will be required to prepare teaching units, lesson plans, examinations, and to observe classroom teaching in nearby schools. |
| BI | 590 | 3 hrs. | ADVANCED ENVIRONMENTAL BIOLOGY
An advanced study of specific ecological problems, research methodology and techniques, and solutions of local and national environmental problems. |
| BI | 597 | 3 hrs. | SPECIAL RESEARCH PROJECT
This course involves individual investigation of a specific problem in biology or related area. This includes extensive survey of literature to write a professional paper based on research data. The student will work under the supervision of biology Faculty Research Advisor (FRA) and bound copies of the completed work will be submitted to the School of Graduate Studies as a requirement of Non-thesis M.S. degree program. Consent of the FRA is required. |

- BI 598 3 hrs. **BIOLOGY RESEARCH INSTRUMENTATION**
 This is a laboratory-based course where students will learn the theory and practice behind techniques and instruments commonly used in modern biological research with special emphasis on detection, quantification, and analysis of nucleic acids and proteins, enzymatic assays, fluorescent microscopy, cell structure, and aseptic technique. Students will learn basic experimental design and methods, and will be expected to present their experiences in a seminar format. Pre-requisites: BI 327, BI 327L, CH 330, CH 330L, or instructor's permission.

DEPARTMENT OF CHEMISTRY AND PHYSICS

Sandra Barnes, Ph.D., Interim Department Chairperson
 Math and Science Building, 2nd Floor
 1000 ASU Drive #780
 Phone: 601-877-6436 FAX: 601-877-6695

Degree Offered

Secondary Education Masters: Chemistry

Requirement for Admission

Standard Educator License

Graduate Faculty

Sandra Barnes, Interim Chairperson, Department of Chemistry & Physics and Associate Professor of Chemistry, B.S., Alcorn State University; Ph.D., University of Kansas

Mohammad Haque, Professor of Physics and Chemical Physics, B.S., University Rajshahi; M.S., University of London; D.I.C., Imperial College, London; Ph.D., University of New York

Robert Leard III, Professor of Chemistry, B.S., University of Southern Mississippi; Ph.D., University of Southern Mississippi

ENDORSEMENT AREA: CHEMISTRY EDUCATION

Program Description

The Department of Chemistry and Physics offers an "AA" endorsement in chemistry as a part of the Master of Science in Education degree in Secondary Education. In this program, a student has the option to become certified in a combination of chemistry and the physical science areas. The area objectives for chemistry education are to:

1. provide for all students a basic and broad knowledge of chemistry necessary for a career in secondary education;
2. offer courses leading to certification in chemistry and the physical sciences;
3. offer courses leading to a Master of Science in Education degree in Secondary Education with "AA" endorsement in Chemistry;
4. offer instruction on the most modern theories of learning and behavior;
5. offer courses in modern methodologies of instruction at the secondary level;

6. prepare teachers for scholarship, service, and leadership in the area of general and applied knowledge;
7. provide curricula in teacher training which responds to the demands of a dynamic democratic society;
8. provide a graduate education program which enables students to obtain advanced training in specialized fields and to contribute to the advancement of knowledge and new truths through scholarly research and inquiry.

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses* (15 hours)		Credits
CH 585	Principles of Chemistry for Teachers	3 hrs.
GS 511	Nuclear Science	3 hrs.
CH 510	Development of Modern Chemistry	3 hrs.
CH 550	Analytical Methods	3 hrs.
CH 560	Selected Topics in Chemistry	3 hrs.
Electives* (6 hours)		Credits
CH 586	Principles of Chemistry for Teachers	4 hrs.
GS 550	Research and Thesis	6 hrs.
CH 520	Advanced Inorganic Laboratory	3 hrs.
CH 530	Advanced Inorganic Chemistry	3 hrs.
CH 540	Advanced Organic Chemistry	3 hrs.
CH 570	Modern Theoretical Chemistry	3 hrs.
CH 500	Science and Environment	3 hrs.
CH 506	Astronomy	3 hrs.
TOTAL		33 hrs.

*The specific required and elective courses will be determined on an individual basis by each student's advisory committee in accordance with the student's preparation and needs.

Chemistry Course Descriptions (CH)

CH	510	3 hrs.	DEVELOPMENT OF MODERN CHEMISTRY A survey of the development of chemical theories from the chemical revolution to the present.
CH	520	3 hrs.	ADVANCED INORGANIC LABORATORY An advanced laboratory course dealing with preparation, purification, and characterization of inorganic compounds.

CH	530	3 hrs.	ADVANCED INORGANIC CHEMISTRY The descriptive chemistry of the main group elements and reaction mechanisms of coordination compounds.
CH	540	3 hrs.	ADVANCED ORGANIC CHEMISTRY Reaction mechanisms and structures of organic compounds.
CH	550	3 hrs.	ANALYTICAL METHODS Theory and methodology of instrumentation and various techniques of chemical analysis.
CH	560	3 hrs.	SELECTED TOPICS IN CHEMISTRY A study of specialized topics in various areas of chemistry.
CH	570	3 hrs.	MODERN THEORETICAL CHEMISTRY An introduction to the basic principles of quantum mechanics as applied to chemistry.
CH	585	3 hrs.	PRINCIPLES OF CHEMISTRY FOR TEACHERS I A course designed for in-service teachers. An investigation of the main concepts of the five major areas of chemistry with emphasis on those concepts involved in the teaching of secondary school chemistry. A strenuous laboratory is involved to relate chemical principles to laboratory activity.
CH	586	3 hrs.	PRINCIPLES OF CHEMISTRY FOR TEACHERS II A continuation of CH 585.

ENDORSEMENT AREA: SCIENCE EDUCATION

Degree Offered

Secondary Education Masters: Science

Requirement for Admission

Standard Educator License

Program Description

The Department of Chemistry and Physics offers an “AA” endorsement in Science Education as part of a Master of Science in Education degree in Secondary Education. In this endorsement, a student has the option to become certified in a combination of physical and biological sciences or may choose heavy emphasis in the physical science area. The area objectives for general science are to:

1. provide for all students a basic and broad knowledge of the physical sciences necessary for a career in secondary education;
2. offer courses leading to certification in the physical sciences in the areas of general sciences, physical science, and earth and space science;
3. offer courses leading to a Master of Science in Education degree in Secondary Education with “AA” endorsement in one or more areas of physical science.

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses (15 hours)		Credits
GS 500	Science and the Environment	3 hrs.
GS 503	Earth and Space Science	3 hrs.
GS 506	Astronomy	3 hrs.
GS 511	Nuclear Science	3 hrs.
GS 585	Methods of Teaching Science	3 hrs.
Electives (6 hours)		Credits
GS 501	Earth Science	3 hrs.
GS 505	Atmospheric Science	3 hrs.
GS 550	Research and Thesis	3 hrs.
GS 504	Radiation Chemistry and Biology	3 hrs.
BI 547	Field Biology and Ecology	3 hrs.
GS 560	Problems in General Science	3 hrs.
TOTAL		33 hrs.

General Science Course Descriptions (GS)

GS	501	3 hrs.	<p>EARTH SCIENCE</p> <p>An integrated course which intends to stress the relationships between energy, traditional earth science topics, and the three spheres comprising our environment. The origin of the atmosphere, structure of the earth, energy resources and consumption and selected geological content are major topics in the course.</p>
GS	505	3 hrs.	<p>ATMOSPHERIC SCIENCE</p> <p>A study of the physical characteristics of the atmosphere. The course will stress the use of instruments, computer assisted methods and building equipment suitable for atmospheric studies. Pre-requisite: PY 112.</p>
GS	506	3 hrs.	<p>ASTRONOMY</p> <p>A basic course on the origin and nature of planets, stars, galaxies; to include also a description of techniques and equipment used to study outer space. Pre-requisite: PY 112.</p>
GS	500	3 hrs.	<p>SCIENCE AND ENVIRONMENT</p> <p>A study designed to forge a crucial link between chemical and biological principles and the natural environment. Current problems dealing with air, water, and soil pollution are stressed.</p>

GS	502	3 hrs.	GENERAL SCIENCE SEMINAR Discussion of current periodicals, books and research reports in the natural sciences.
GS	503	3 hrs.	EARTH AND SPACE SCIENCE An introductory survey course on the basic concepts of astronomy, meteorology, and geology. Additional topics are selectively treated from the areas of chemistry and physics to develop and broaden an understanding of the chemical and physical forces influencing the quality of life on earth.
GS	504	3 hrs.	RADIATION CHEMISTRY AND BIOLOGY A study of the types, sources and measurement of radiation and the chemical changes induced by these radiations especially as they affect biological systems.
GS	510	3 hrs.	SPECIAL TOPICS IN GENERAL SCIENCE This course is a series of four two-hour credit mini courses. The complete series consists of four mini courses for a total of eight credit hours. A student may elect any one or more of the mini courses and earn from two to a maximum of eight credits.
GS	511	3 hrs.	NUCLEAR SCIENCE Basic concepts on nuclear reactions, nuclear energy, use of nuclear energy and problems of waste and storage. Pre-requisite: PY 111.
GS	550	6 hrs.	RESEARCH AND THESIS The completion of a research project under the direction of an advisor and the preparation of a thesis incorporating the results. An oral defense of the thesis will be required
GS	560	3 hrs.	PROBLEMS IN GENERAL SCIENCE Selected problems involving descriptive or experimental research with special emphasis or interdisciplinary approaches to these problems.
GS	594	3 hrs.	GENERAL SCIENCE FOR ELEMENTARY SCIENCE TEACHERS This course is designed expressly for in-service elementary science teachers, and is restricted to those teachers having a National Science Foundation Grant, or to persons with written permission of the instructor. The course will deal with Science Curriculum Improvement Study (SCIS) materials along with other selected topics from biological and physical sciences for the enlightenment of the in-service teachers to certain scientific principles.
GS	595	3 hrs.	GENERAL SCIENCE FOR ELEMENTARY SCIENCE TEACHERS A continuation of 594. Teachers who have participated in the elementary science teacher program will be visited six times per semester in the individual classroom by staff members. They will participate in two Saturday seminars each semester.
GS	596	1 hr.	GENERAL SCIENCE FOR ELEMENTARY SCIENCE TEACHERS A continuation of GS 595.

DEPARTMENT OF ENGLISH AND FOREIGN LANGUAGES

Cynthia Scurria, Ph.D., Department Chair
Harmon Hall
1000 ASU Drive #120
Phone: 601-877- 6400 FAX: 601-877-2469

Degree Offered

Secondary Education Masters: English

Requirement for Admission

Standard Educator License

Graduate Faculty

Cecile Dianne Bunch, Professor of English, B.A., Louisiana State University; M.A., Tulane University; Ph.D., University of Mississippi

Lillie Jones, Professor of English, B.A., Alcorn State University; M.A., Bowling Green State University; Ph.D., Bowling Green State University

Peter Malik, Professor of English, B.A., Harvard University; M.A., Georgetown University; Ph.D., University of Southwestern Louisiana

Anne-Marie Obilade, Associate Professor of English, B.A., University of Bridgeport; M.A., Southern Illinois University-Carbondale; Ph.D., Southern Illinois University-Carbondale

Murray Shugars, Professor of English, B.A., Grand Valley State University; M.A., Purdue University; Ph.D., Purdue University

Cynthia Scurria, Chairperson, Department of English and Foreign Languages and Associate Professor of English, B.S., Louisiana State University; Ph.D., Tulane University

ENDORSEMENT AREA: ENGLISH

Program Description

The Department of English and Foreign Languages offers an endorsement in English for the Master of Science in Secondary Education degree. The English curriculum at the graduate level seeks to provide individuals with advanced skills and tools in the areas of language, literature, and criticism, by 1) enhancing mastery of the English language, 2) developing skills and technique for effective writing, 3) broadening the base of literary knowledge, 4) refining literary skills in analysis, 5) improving research skills, and 6) enhancing teaching skills. Before graduating, candidates will demonstrate knowledge of American and British Literature along with proficiency in writing.

As stated in the Core Comprehensive Examinations section for the School of Education, to successfully complete the Master of Science in Secondary Education degree with an endorsement in English, a candidate must pass the Area Exit Examination administered by the Department of English as well as the Core Comprehensive Examination administered by the School of Education.

Though the program was designed primarily for graduate teaching majors, it can also benefit those in other endorsement areas through its courses in Communication/writing skills, cultural history, and literature-all of which may be taken as electives.

Course Requirements

Core Education Courses (12 hours)

		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.

Required Courses (15 hours)

		Credits
EN 501	Theory and Practice of Composition	3 hrs.
EN 502	Methods and Principles of Literary Analysis	3 hrs.
EN 585	Methods of Teaching English	3 hrs.
EN 511	Seminar in English Literature	3 hrs.
Or		
EN 512	Seminar in American Literature	3 hrs.
EN 521	Literary History of England	3 hrs.
Or		
EN 522	Literary History of the U.S.	3 hrs.

Electives (6 hours chosen from the following)

		Credits
EN 511	or EN 512 (whichever was not taken above)	3 hrs.
EN 521	or EN 522 (whichever was not taken above)	3 hrs.
EN 503	The Structure of Modern English	3 hrs.
EN 560	Problems in English	3 hrs.
or		
EN 561	Special Topics in Literature or	
EN 562	Special Topics in Teaching English	

TOTAL **33 hrs.**

English Course Descriptions (EN)

EN	500	3 hrs.	<p>TEACHING WRITING</p> <p>This course stresses improvement in writing for in-service teachers. The course is for both elementary and secondary teachers from all disciplines. Enrollment is limited to participants in the Alcorn Writing Project Summer Writing Institute.</p>
EN	501	3 hrs.	<p>THEORY AND PRACTICE OF COMPOSITION</p> <p>An examination of recent research and writing on the art of composition, concerning the relation of the composing process to grammar instruction; intensive practice in many types of composition. Pre-requisite: graduate standing or permission of department chairperson.</p>
EN	502	3 hrs.	<p>METHODS AND PRINCIPLES OF LITERARY ANALYSIS</p> <p>An overview and application of the fundamental aspects of the major genres of imaginative literature and a study of approaches in literary criticism. The place of literature in the curriculum and in the life of the student is emphasized.</p>

EN	503	3 hrs.	THE STRUCTURE OF MODERN ENGLISH The fundamentals of linguistic analysis, with some attention to Southern and African-American speech patterns; also some attention to the role of linguistics in the secondary school. Pre-requisite: graduate standing or permission of department chairperson.
EN	511	3 hrs.	SEMINAR IN ENGLISH LITERATURE The intensive study of a selected genre, theme, or author in English literature, with close collaboration between instructor and students in defining the area of study. Pre-requisite: graduate standing or permission of department chairperson.
EN	521	3 hrs.	THE LITERARY HISTORY OF ENGLISH An examination of English literature against the background of major political, social, and intellectual developments in England and Europe. Pre-requisite: graduate standing or permission of departmental chairperson.
EN	522	3 hrs.	THE LITERARY HISTORY OF THE UNITED STATES A study of American literature as it reflects and is affected by America's early settlement, revolution, Civil War, and rise to the position of world power. Pre-requisite: graduate standing or permission of department chairperson.
EN	560	3 hrs.	PROBLEMS IN ENGLISH A course providing for directed independent studies on particular aspects of language, literature, or pedagogy. Pre-requisite: graduate standing or permission of department chairperson.
EN	561	3 hrs.	SPECIAL TOPICS IN LITERATURE A seminar course focusing on an area of literature specified by the faculty and ranging across historical periods and genres.
EN	562	3 hrs.	SPECIAL TOPICS IN TEACHING ENGLISH A seminar course focusing on literature with an emphasis on best practices of teaching literature in the secondary classroom.
EN	585	3 hrs.	METHODS OF TEACHING ENGLISH This course presents the methods of teaching English in the secondary school, placing emphasis upon the integration of the curriculum and the individual in a democracy. It seeks to provide experiences leading to the creation of dynamic classroom conditions for effective teaching – essentially a special methods course dealing with techniques and procedures on the high school level. Students will be required to prepare teaching units, lesson plans, and examinations.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Ping Zhang, Ph.D., Interim Department Chairperson
Math and Science Building, 1st Floor
1000 ASU Drive #30
Phone: 601-877-6430 FAX: 601-877-3989

Degrees Offered

M.S. in Computer and Information Science

Required Admission Test

GRE General Test

Graduate Faculty

Bilal Abu Bakr, Assistant Professor of Computer Science, B.S., University of the Punjab; M.S., University of the Punjab; M.S., Western Michigan University; Ph.D., Western Michigan University

Sidney Hawkins, Professor of Mathematics, B.S., Grambling State University; M.S., Louisiana Tech University; M.S., Tulane University; Ph.D., Louisiana State University

Taipan Tiwari, Associate Professor of Mathematics, B.A., Megadh University; M.S., Alcorn State University; M.S., Mississippi State University; Ph.D., Mississippi State University

Yong Yang, Assistant Professor, B.S., Anhui Agricultural University; M.S., Texas A&M University; Ph.D., Texas A&M University

Lixin Yu, Chairperson, Department of Mathematics and Computer Science and Professor of Computer and Information Science, B.A., Beijing University; M.L.S., State University of New York at Albany; Ph.D., University of New York at Albany

Ping Zhang, Assistant Professor of Computer Science, B.A., Chong Qing University; M.S., Chong Qing University; Ph.D., Chong Qing University; Ph.D., Concordia University, Canada

MASTER OF SCIENCE IN COMPUTER AND INFORMATION SCIENCE

Program Description

This program is designed to meet the needs of two groups of students: those who have completed an undergraduate degree in Computer Sciences, and those with degrees in related fields who want to develop their knowledge and skill in computer science. Upon successful completion of a M.S. Degree program in Computer Science at Alcorn State University, students will demonstrate competence in the following core areas:

1. Theory of Computation
2. Design and analysis of algorithms
3. Computer Architecture
4. Operating Systems
5. Programming Languages
6. Programming skills in high level languages and ability to build software systems
7. Ability to conduct independent research and writing of technical reports and papers for Publication
8. Good oral and written communication skills
9. Ability to work in teams as productive members and as leaders

Admission Requirements:

1. Meet all Graduate Studies admission requirements.
2. Students are required to take the following prerequisites: two calculus courses, a discrete mathematics course, one course involving the concepts of object-oriented programming (e.g., in Java, C++), and one course in data structures and algorithms.
3. Students who have not completed the undergraduate prerequisites may be conditionally admitted. A student will be removed from conditional status after all prerequisites have been completed with a "B" average or better.

Graduation Requirements:

Master degree candidates must complete a minimum 33 credit hours including at least 15 credit hours from the required courses

Master degree candidates must complete either the thesis (6 credit hours) or a research project (3 credit hours) or internship (3 credit hours).

With the recommendation of the advisor and permission of the department chair, a student may take a three credit hour course from a related field, which will be counted as an elective course.

Course Requirements

Required Courses (15-18 hours)		Credits
CS 521	Theory of Computation	3 hrs.
CS 523	Programming Languages	3 hrs.
CS 525	Operating Systems	3 hrs.
CS 527	Design and Analysis of Algorithms	3 hrs.
CS 580	Research Project *	3 hrs.
CS 581	Internship*	3 hrs.
CS 590	Thesis*	6 hrs.
* Students must enroll in one of these three courses.		
Elective Courses (Select five courses if CS590 is selected above. Otherwise, select six courses)		Credits
CS 529	Information Retrieval System I	3 hrs.
CS 531	Artificial Intelligence	3 hrs.
CS 533	Database Management Systems	3 hrs.
CS 535	Computer Architecture	3 hrs.
CS 537	Computer Graphics	3 hrs.
CS 539	Compiler Construction	3 hrs.
CS 540	Implementation of Adv. Algorithms	3 hrs.
CS 541	Software Engineering	3 hrs.
CS 543	Scientific Computation	3 hrs.
CS 545	Network and Telecom I	3 hrs.
CS 546	Network and Telecom II	3 hrs.
CS 547	Algorithms for Parallel Computers	3 hrs.
CS 553	Information Retrieval System II	3 hrs.
CS 555	Object-Oriented Programming and Data Structure	3 hrs.
CS 560	Special Topics I in Computer Science	3 hrs.
CS 561	Special Topics II in Computer Science	3 hrs.
TOTAL		33 hrs.

Computer Science Course Descriptions (CS)

CS	521	3 hrs.	THEORY OF COMPUTATION Introducing fundamental ideas, models, and results that permeate computer science. Describing certain restricted models of computation. Studying general models of algorithms (Turing Machine). Discussing undecidability. Pre-requisite: None.
CS	523	3 hrs.	PROGRAMMING LANGUAGES A survey of programming languages and language features and an introduction to compilers. A description of the primary formal methods for describing the syntax of programming languages. An introduction to the design issues for the primary constructs of the programming languages. Pre-requisite: CS 321 or equivalent.
CS	525	3 hrs.	OPERATING SYSTEMS Processes & threads management; interprocess communication and synchronization; deadlock; memory management; protection issues including access and flow control, encryption, and distributed operating systems. Pre-requisite: CS 321 or equivalent.
CS	527	3 hrs.	DESIGN AND ANALYSIS OF ALGORITHMS Techniques of designing and analyzing algorithms. Divide-and-conquer methods, greedy algorithms, dynamic programming, backtracking, branch-and-bound techniques, Cook's Theorem, NP-hard and NP-complete problems, and heuristics. Pre-requisite : CS 321, MA 304.
CS	529	3 hrs.	INFORMATION RETRIEVAL SYSTEM I Design/analysis of information flow systems for management and control; general system theory, systems approach to study and design of information systems/subsystems; common systems such as MIS, DSS, and expert systems. Pre-requisite: None.
CS	531	3 hrs.	ARTIFICIAL INTELLIGENCE Definition of heuristic versus algorithmic methods. Special purpose programming languages; knowledge representation; automated inference; expert systems; machine learning; and neural computation. Pre-requisite: CS 527.
CS	533	3 hrs.	DATABASE MANAGEMENT SYSTEMS Database organization; design and use of database management systems; database models; data independence and representation; relational algebra; normalization; and distributed databases. Pre-requisite: None.
CS	535	3 hrs.	COMPUTER ARCHITECTURE Algorithms and their realizations, special techniques for coding, addressing, and control; integration of computer units; relations between programming and design considerations. Pre-requisite: None.
CS	537	3 hrs.	COMPUTER GRAPHICS Techniques of modeling objects for the purpose of computer rendering; mathematical techniques for curve and surface representation; geometrical transformations; and related algorithms and models. Pre-requisite : CS 525.

CS	539	3 hrs.	COMPILER CONSTRUCTION Formal description of languages, lexical analysis, syntax analysis, syntax-directed translation, run-time system management, code generation, code optimization, compiler-building tools. Pre-requisite: CS 525.
CS	541	3 hrs.	SOFTWARE ENGINEERING Ideas and techniques for designing, developing, and modifying large software systems. Function-oriented and object-oriented modular design techniques; designing for re-use and maintainability; software architectures; and documentation. Pre-requisite: None.
CS	543	3 hrs.	SCIENTIFIC COMPUTATION Computational problems in linear algebra, numerical solution of systems of equations, functional approximation, numerical integration and other related topics. Pre-requisite: None.
CS	545	3 hrs.	NETWORK AND TELECOM I Fundamental concepts of time and frequency descriptions of signals, sampling and noise; analog modulation schemes; digital modulation; bandwidth; media; data networks; local area networks, Wide-Area Networks; TCP-IP and OSI protocol stacks. Pre-requisite: CS 525.
CS	546	3 hrs.	NETWORK AND TELECOM II Networking and Internetworking devices, Routing Algorithms, Wireless LAN and WAN technologies, cellular telephony, socket programming, Encryption, Data compression. Pre-requisite: CS 545.
CS	547	3 hrs.	ALGORITHMS FOR PARALLEL COMPUTERS Parallel Models, p- completeness, efficient PRAM algorithms, prefix sums, merging and merge sort, bionic sort, Euler tour, tree contraction, graph connectivity, etc.
CS	553	3 hrs.	INFORMATION RETRIEVAL SYSTEM II Development of a sample information retrieval system. Practice design and development of a complete system. Topics include indexing, database, file processing, and user interface design. Pre-requisite: CS 529.
CS	555	3 hrs.	OBJECT-ORIENTED PROGRAMMING AND DATA STRUCTURE This course focuses on the object oriented programming and data structure. It is geared toward non-CS majors going into computer and information science graduate program. The course will cover key concepts of data structures, data manipulation, algorithms and efficiency. Topics include: data structures (arrays, lists, stacks, queues, trees, and graphs), classes, interfaces, inheritance and polymorphism. Software projects will be implemented in this course to enhance students' hands-on programming skills and problem-solving abilities. Pre-requisite: None.
CS	560	3 hrs.	SPECIAL TOPICS I IN COMPUTER SCIENCE A course for CS major graduate students to investigate a computer science topic that is not included in the curriculum. The course is under the supervision of a faculty member.

CS	561	3 hrs.	SPECIAL TOPICS II IN COMPUTER SCIENCE A course for CS major graduate students to investigate a computer science topic that is not included in the curriculum. The course is under the supervision of a faculty member.
CS	580	3 hrs.	RESEARCH PROJECT Individual investigation of a project related to the computer science discipline. The course is under the supervision of a faculty member. Not for students who are taking or have taken CS 581 or CS 590.
CS	581	3 hrs.	INTERNSHIP Individual investigation of a project related to the computer science discipline. Students must take training positions (co-operative/curricular practical training/field practice) in an agency, which provide students with working experience in computer science under supervision of the faculty and agencies. Not for students who are taking or have taken CS 580 or CS 590.
CS	590	6 hrs.	THESIS Directed research on a selected topic with the consent of the graduate adviser. The course is under the supervision of a faculty member. Not for students who are taking CS 580 or CS 581.

ENDORSEMENT AREA: MATHEMATICS EDUCATION

Degree Offered

Secondary Education Masters: Mathematics

Requirement for Admission

Standard Educator License

Program Description

The Master of Science in Education degree in Secondary Education (with an endorsement in mathematics) is interdisciplinary. It is designed for mathematics teachers in elementary, junior and senior high schools, and junior colleges. Specifically, the department strives to:

1. strengthen the attributes of a good teacher;
2. develop skill in oral and written communication of mathematics;
3. Establish an intellectual environment in which teaching and learning flourish together.

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.

Required Courses (18 hours)		Credits
MA 501	Introduction to Analysis	3 hrs.
MA 502	Logic, Sets and Found. of Math	3 hrs.
MA 503	Abstract Algebra I	3 hrs.
MA 504	Axiomatic Geometry	3 hrs.
MA 515	General Topology	3 hrs.
MA 585	Methods of Teaching Mathematics	3 hrs.
 Electives (at least one course in algebra) (3-6 hours)		 Credits
MA 511	Introduction to Analysis II	3 hrs.
MA 512	Complex Variables	3 hrs.
MA 513	Abstract Algebra II	3 hrs.
MA 514	Synthetic Projective Geometry	3 hrs.
MA 516	Group Theory	3 hrs.
MA 560	Modern Topics in Mathematics	1-3 hrs.
 TOTAL		 33 hrs.

Mathematics Course Descriptions (MA)

MA	501	3 hrs.	INTRODUCTION TO ANALYSIS I Point set theory, sequences, continuity, uniform continuity, and properties of continuous functions, limits. Riemann intégration.
MA	502	3 hrs.	LOGIC, SETS, AND FOUNDATIONS OF MATHEMATICS This course serves as an introduction to the foundations of mathematics and includes study of functions, relations, partially ordered sets the axiom of choice, finite and infinite sets.
MA	503	3 hrs.	ABSTRACT ALGEBRA I Fundamental Theorems of homomorphism and isomorphism for group, class equation, Sylow Theorems, Structure of finite abelian groups.
MA	504	3 hrs.	AXIOMATIC GEOMETRY A rigorous introduction to the axiomatic structure of Euclidean and non-Euclidean geometry.
MA	511	3 hrs.	INTRODUCTION TO ANALYSIS II Taylor's Theorem, improper integrals, infinite series, uniform convergence, directional derivatives, partial derivatives.
MA	512	3 hrs.	COMPLEX VARIABLES Rigorous introduction to the theory of complex variables.
MA	513	3 hrs.	ABSTRACT ALGEBRA II Rings, ideals, integral domains. Quotient Rings, prime and maximal Ideals, Fundamental Theorem of Homomorphism and Isomorphism. Quotient field, field, finite field, division ring. Field extensions: finite, infinite and algebraic.

MA	514	3 hrs.	SYNTHETIC PROJECTIVE GEOMETRY Elementary treatment, without the use of coordinates, of fundamental propositions of projective geometry.
MA	515	3 hrs.	GENERAL TOPOLOGY Set theory, metric spaces, topological spaces, limits, continuity, connectedness, compactness, and convergence.
MA	516	3 hrs.	LINEAR ALGEBRA Linear transformation of vector spaces. Inner product space, normed linear space, Gram-Schmidt orthogonalization process, diagonalization.
MA	560	3 hrs.	MODERN TOPICS IN MATHEMATICS A study of modern topics taken from the literature and current research.
MA	561	3 hrs.	DISCRETE MATHEMATICS FOR SECONDARY TEACHERS Discrete mathematics is the total in science of mathematics connections, provides a setting for problem solving with real world applications, capitalizing on technological setting, and fosters critical thinking and mathematical reasoning.
MA	570	6 hrs.	THESIS This course will require the student to initiate and carry to completion a research project under the supervision of a faculty member.
MA	585	3 hrs.	MODERN METHODS OF TEACHING A methods course taught by faculty from the various areas of endorsement in secondary education.

**DEPARTMENT OF
FINE ARTS**

Larry Konecky, Ph.D., Department Chair
Fine Arts Building, 1st Floor
1000 ASU Drive #29
Phone: 601-877-6261 FAX: 601-877-6262

Degree Offered

Secondary Education Masters: Music

Requirement for Admission

Standard Educator License

Graduate Faculty

David Goldblatt, Assistant Professor of Music/Accompanist, B.M., University of Arizona; M.S., University of New Mexico, Albuquerque; Ph.D., University of Florida

Byron Johnson, Assistant Professor of Music, B.A., Talladega College; M.M., University of Southern Mississippi; D.M.Ed., University of Southern Mississippi

Larry Konecky, Chairperson, Department of Fine Arts and Professor of Music, B.M.E., University of Southern Mississippi; M. Music, University of Southern Mississippi; D.M.Ed., University of Southern Mississippi

Donzell Lee, Provost and Executive Vice President of Academic Affairs and Professor of Music, B.M., Xavier University; M.A., Stanford University; Ph.D., Louisiana State University

David Miller, Professor of Music, B.A., University of South Florida; M.M., University of South Florida; D.A., University of Mississippi

Renardo Murray, Director of Bands and Assistant Professor of Music, B.M.E., Alcorn State University; M.M.Ed, Jackson State University; M.S.W., Washington University; Ph.D., University of Mississippi

ENDORSEMENT AREA: Music Education

Program Description

The Master's degree at Alcorn State University is designed to meet all criteria set forth by the State Department of Education. The Department of Fine Arts offers a contemporary curriculum that embraces the ever-changing world of music in the public and private sector. This degree consists of 33 hours of course requirements and leads to AA licensure in music education. This degree is designed to allow students to explore issues, design curriculum and learn new strategies and techniques that will enable them to become more effective music educators, through the application of theory and new research to their educational practice. It also gives the practitioner a means to use creativity in the latest content and approaches to music to reach and teach students. Music teachers in both public and parochial settings can expand their musical expertise as a teacher continue their professional work as they gain advanced knowledge and skills to move their students to higher levels of achievement.

Specific objectives of this endorsement are to:

1. Provide advanced knowledge and theory for students in music;
2. Explore, develop, and disseminate techniques and methods of teaching and research in music education subject area;
3. Encourage within students a sharpened sense of awareness of current and future developments in music education;

4. To prepare students to serve as a resource for schools and other community organization as it applies to music education.

Admission Requirements

The Music Graduate Committee will evaluate a candidate for admission based on several criteria. A candidate may be required to take specific undergraduate music courses before full admission into the program can be granted.

1. A candidate is expected to have a musical background-- previous participation in choir and/or band or other performance activity
2. Basic keyboard proficiency
3. Basic knowledge of music theory

Curriculum

The graduate program for the Master of Science in Secondary Education requires completion of 33 semester credit hours of course work which includes 12 semester graduate hours of Core Courses; 21 semester graduate hours in the content.

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses* (21 hours)		Credits
MU 500	History and Philosophy of Music Education	3 hrs.
MU 501	Methods of Teaching Music in the Secondary School	3 hrs.
MU 502	Survey of Research in Music Education	3 hrs.
MU 503	Administration of the School Music Program	3 hrs.
MU 504	Contemporary Issues in Music Education	3 hrs.
MU 505	Seminar in Music Theory	3 hrs.
MU 506	Seminar in Music Education	3 hrs.
TOTAL		33 hrs.

Music Course Descriptions (MU)

MU	500	3 hrs.	<p>HISTORY AND PHILOSOPHY OF MUSIC EDUCATION</p> <p>The purpose of this course is to introduce students to the ideas, people, and events that inform the history and philosophy of music education. The course will acquaint students with tools of philosophical and historical inquiry appropriate for their ongoing engagement with music education as reflective practitioners</p>
MU	501	3 hrs.	<p>METHODS OF TEACHING MUSIC IN SECONDARY SCHOOLS</p> <p>This course is an intense and comprehensive study of instructional materials for the secondary general music teacher. Topics include developing curricula,</p>

scheduling, motivation, and issues associated with teaching music in the secondary schools.

- MU 502 3 hrs. **RESEARCH IN MUSIC EDUCATION**
This course serves as an introduction to graduate level research in music education concentrating on content as well as on methodological, stylistic, and philosophical issues that arise when writing about music within a music education setting. The course covers basic statistical concepts, library research techniques, standard reference tools and electronic resources.
- MU 503 3 hrs. **ADMINISTRATION OF THE SCHOOL MUSIC PROGRAM**
This course is designed to prepare music educators for supervisory and administrative positions in school music programs. The course covers strategies in communication, classroom management, current trends, teaching and learning styles, and teacher assessment and evaluation.
- MU 504 3 hrs. **CONTEMPORARY ISSUES IN MUSIC EDUCATION**
This course examines current trends and issues in music education. Particular attention will be given to curricular issues and other issues arising from state and national assessments and developments.
- MU 505 3 hrs. **SEMINAR IN MUSIC THEORY**
This course will cover one or more of the following areas of music theory: Pedagogy of Music Theory, Analytical Techniques and/or Orchestration and Arranging. The specific topic or topics will be chosen through collaboration between student and instructor and is designed to broaden knowledge and develop further skills in selected areas of music theory.
- MU 506 3 hrs. **SEMINAR IN MUSIC EDUCATION**
Topics for this course will be chosen from the following: Band/Choral Conducting, Instrumental/Choral/Keyboard Methods and Materials, Marching Band Techniques, Advanced Studies in Music History, and/or Instrumental/Vocal/Keyboard Applied Pedagogy. The specific topic or topics will be chosen through collaboration between the student and instructor. The course is designed to broaden knowledge and develop further skills in selected areas of music education

DEPARTMENT OF SOCIAL SCIENCES

Dickson Idusuyi, Ph.D., Interim Department Chairperson
Harmon Hall
1000 ASU Drive #60
Phone: 601-877-6411 FAX: 601-877-3989

Degree Offered

Secondary Education Masters: Social Sciences

Requirement for Admission

Standard Educator License

Graduate Faculty

Dorothy Idleburg, Professor and Director of Social Work Program, B.A., Jackson State University; M.A., Jackson State University; M.S.W., Washington University; Ph.D., Washington University

Dickson Idusuyi, Interim Chairperson, Department of Social Sciences, Professor of Political Science, B.S., Alcorn State University; M.S., Prairie View A&M University; Ph.D., Jackson State University

Vitalis Ihearnacho, Associate Professor of Political Science, B.S., Texas College; M.A., University of North Texas; Ph.D., University of North Texas

ENDORSEMENT AREA: SOCIAL SCIENCE EDUCATION

Program Description

The Master of Science in Education degree with an endorsement in social science is an interdisciplinary degree program designed especially for social studies teachers in junior and senior high schools and community colleges. More specific objectives of this endorsement are to:

1. Provide advanced knowledge and theory for students in the social sciences and allied fields;
2. Explore, develop, and disseminate techniques and methods of teaching and research in the social and behavioral areas of concern;
3. Encourage within students a sharpened sense of awareness of current and future developments in a modernized global society;
4. Stimulate students to become better prepared to provide professional services and leadership to their respective communities as well as the greater society;
5. Serve as a resource center for local schools and other community organizations.

Course Requirements

Education Core Courses (12 hours)	Credits
ED 512 Foundations of American Research	3 hrs.
ED 514 Methods of Educational Research	3 hrs.
PH 513 Advanced Educational Psychology	3 hrs.
ED 533 Curriculum (Methods) Development	3 hrs.

Required Courses (15 hours)		Credits
EC 501	Advanced Microeconomics	3 hrs.
SY 502	Comparative Family Systems	3 hrs.
GT 501	Blacks and the American Political System	3 hrs.
HI 506	African and Afro-American History	3 hrs.
SS 585	Methods of Teaching Social Sciences	3 hrs.
Electives (6 hours)		Credits
EC 502	Advanced Macroeconomics	3 hrs.
EC 504	Seminar on Comparative Economic Systems	3 hrs.
EC 530	Economic Security & Social Welfare	3 hrs.
HI 501	History of American Constitutional Law I	3 hrs.
HI 502	History of American Constitutional Law II	3 hrs.
GT 504	Government and Politics in Modern Africa	3 hrs.
GT 506	Race & International Politics	3 hrs.
SY 516	Social Foundation of Personality	3 hrs.
SS 517	Social Science Symposia	2-4 hrs.
TOTAL		33 hrs.

Sociology Course Descriptions (SY)

SY	502	3 hrs.	<p>COMPARATIVE FAMILY SYSTEMS</p> <p>This course is designed to acquaint the students with the cross-cultural patterns of family life; the importance and significance of the family and the social interaction involved at various social levels.</p>
SY	504	3 hrs.	<p>ADVANCED CULTURAL ANTHROPOLOGY</p> <p>An analysis and study of the contemporary anthropological theories of culture; a comparison of economic, political, religious, and kinship structure of various societies of the world.</p>
SY	516	3 hrs.	<p>SOCIAL FOUNDATION OF PERSONALITY</p> <p>The impact of social and cultural factors on the growth and development of personality; with emphasis on social status, norms, roles, and social interaction as discussed in various theories of personality development.</p>
SY	567	3 hrs.	<p>RACIAL AND CULTURAL MINORITIES</p> <p>This course will examine and explore race and ethnic relations in American society. It will delve into the historical and cultural heritage of the diverse ethnic groups found in America and around the world. Particular attention will focus on the present day sociological, economic, religious, and political issues and problems that evolve racial relationships across the U.S. Particular attention will be given to recent immigrants and resulting immigration policies and legislation. A deep examination will be conducted that looks at conflicts and issues that arise between ethnic minorities because of competition for resources and differential treatment by the prevailing dominant group.</p>

Economics Course Descriptions (EC)

- EC 501 3 hrs. **ADVANCED MICROECONOMICS**
Intensive study of economics principles and theories underlying consumer demand, production theory and the behavior of firms.
- EC 502 3 hrs. **ADVANCED MACROECONOMICS**
Intensive study of determinants of national income and employment. The consumption spending theories, business investment theories, government spending, taxing and monetary policies, and their role in determining the level of economic activity and growth.

Political Science (GT)

- GT 501 3 hrs. **BLACKS IN THE AMERICAN POLITICAL SYSTEM**
A review and analysis of the role and position of Blacks in American politics from earliest times to the present. Special attention will be given to the "Civil Rights Era."
- GT 525 3 hrs. **PUBLIC ADMINISTRATION**
Advanced study in leadership, communication, planning, policy analysis, and program evaluation; directed research in selected substantive policy areas.
- GT 518 3 hrs. **COMPARATIVE POLITICS**
A systemic examination of the similarities and differences of political experiences by a wide variety of political systems in the modern world with emphasis on historical and social impacts on political settings, political developments and changes, structure and performance of political systems, citizen participation, and public policy and its impacts.

SCHOOL OF AGRICULTURE, RESEARCH, EXTENSION AND APPLIED SCIENCES



"Never tell people how to do things. Tell them what to do and they will surprise you with their ingenuity."

-- George S. Patton

SCHOOL OF AGRICULTURE, RESEARCH, EXTENSION AND APPLIED SCIENCES

Ivory Lyles, Ph.D., Dean
Morris/Boykins Agriculture Complex
110 E. Extension Complex
601-877-6137 FAX 601-877-6219

Degree

Master of Science in Agriculture: Agronomy
 Master of Science in Agriculture: Animal Science
 Master of Science in Agriculture: Agriculture Economics
 Master of Science in Applied Science and Technology
 Master of Science in Biotechnology
 Master of Science in Workforce Education Leadership

Required Admission Test

GRE General Test
 GRE General Test
 GRE General Test
 GRE General Test
 GRE General Test
 GRE General Test

DEPARTMENT OF AGRICULTURE

Daniel Collins, Ph.D., Department Chair
 Morris –Boykin Agricultural Science Building
 Phone: 601-877-6543 FAX: 601 877-4189

GRADUATE FACULTY

Dovi Alipoe, Professor of Agricultural Economics and Director of Global Programs, B.S., University of du Benin; M.A., Sam Houston State University; Ph.D., Texas Tech University
Barry Bequette, Interim Dean and Professor, School of Agriculture, Research, Extension, and Applied Sciences, Director of Land Grant Programs, B.S., Murray State University; M.S., Murray State University; Ph.D., Mississippi State University
Gwendolyn D. Boyd, Associate Professor of Agriculture, B.S., Alcorn State University; M.S., Mississippi State University; Ph.D., Mississippi State University
Daniel Collins, Chairperson, Department of Agriculture, Professor of Plant Pathology, B.S., Jackson State University; M.S., Alabama A&M University; Ph.D., University of Missouri-Columbia
Evelin Cuadra, Professor of Agriculture, B.A., National School Agriculture; M.S., Mississippi State University; Ph.D., Mississippi State University
Michael Ezekwe, Director of Swine Development Center and Professor of Agriculture, B.S., University of Nigeria; M.S., Pennsylvania State University; Ph.D., Mississippi State University
LaShunda Anderson Hodges, Assistant Professor of Agronomy, B.S., Alcorn State University; M.S., Alcorn State University, Ph.D., Louisiana State University
Patrick Igbokwe, Director of Alcorn Experiment Station and Professor of Horticulture, B.S., Alcorn State University; M.S., Alabama A&M University; Ph.D., Louisiana State University
Andra Johnson, Associate Professor of Agriculture, B.S., Southern University; M.S., The Pennsylvania State University (Penn State); Ph.D., The Pennsylvania State University (Penn State)

- Avis Joseph**, Assistant Professor of Agriculture, B.S., Alcorn State University; M.S., Alcorn State University; Ph.D., Mississippi State University
- Ivory Lyles**, Dean, School of A.R.E.A.S. and Professor, B.S., Alcorn State University; M.S., Mississippi State University; Ph.D., Ohio State University
- Victor N. Njiti**, Assistant Professor of Agriculture, B.S., Southern Illinois University of Carbondale; M.S., Southern Illinois University of Carbondale; Ph.D., Southern Illinois University of Carbondale
- Tahir Rashid**, Assistant Professor of Entomology, B.S., University of Baluchistan, Pakistan; M.S., University of Baluchistan; M.S., University of Arkansas; Ph.D., University of Arkansas
- Kenneth K. Stallings**, Professor of Poultry, B.S., Alcorn State University; M.S., Alcorn State University; Ph.D., Mississippi State University
- Cassandra Vaughn**, Assistant Professor of Animal Science, B.S., Alcorn State University; D.V.M., Mississippi State University
- Wesley Whittaker**, Professor of Agricultural Economics, B.S., North Carolina A&T University; M.S., University of Illinois; Ph.D., University of Illinois

MASTER OF SCIENCE IN GENERAL AGRICULTURE

Program Description

The Master of Science in General Agriculture with its three options is designed to accommodate the demands and needs of students and potential employers of program graduates. Students are able to pursue the Master's in Agronomy, Animal Science, and Agricultural Economics.

AGRONOMY (PLANT AND SOIL SCIENCE)

The following learning outcomes are expected for the Agronomy Option: (1) Students completing the M.S. degree in Agronomy will have advanced knowledge and skills to address major problems confronting growers of agronomic and horticultural crops; (2) students will learn more on how proper crop selection is important in successful vegetable crop production; (3) Students will be familiar with how both insects, weeds, and disease organisms influence quality and visual ratings; and (4) student will have acquired in-depth knowledge of research techniques.

Course Requirements

Core Courses (9 hours)		Credits
PS 535	Advanced Soil Classification	3 hrs.
PS 559	Advanced Soil Fertility	3 hrs.
PS 590	Advanced Research Techniques	3 hrs.
Required Courses (12 hours for thesis plan; 9 hours for non-thesis plan)		Credits
PS 595	Experimental Design	
PS 600	Research in Plant Science	3 hrs.
PS 610	Thesis I	3 hrs.
PS 611	Thesis II	2 hrs.
PS 612	Thesis III	1 hr.

Elective Courses (12 hours for thesis plan; 15 hours for non-thesis plan) to be chosen by the student under supervision and approval of advisor.

		Credits
PS 548	Advanced Soil Management	3 hrs.
PS 580	Soil Chemistry	3 hrs.
PS 601	Special Prob. In Vegetables and Small Fruit Production	3 hrs.
PS 602	Special Problems in Forage Production	3 hrs.
BI 547	Advanced Field Biology and Ecology	3 hrs.
AN 515	Advanced Principles & Philosophy of Voc. Ed.	3 hrs.
AN 500	Administration of Agriculture Education	3 hrs.
AN 510	Agricultural Education Media	3 hrs.
AG 558	Special Problems in Agricultural Mechanics	3 hrs.
AG 577	Advanced Power and Machinery	3 hrs.
BI 502	Advanced Plant Pathology	3 hrs.
BI 501	Advanced Plant Physiology	3 hrs.
BI 505	Economic Plants	3 hrs.
PH 504	Educational and Psychological Statistics	3 hrs.
	TOTAL	33 hrs.

Plant and Soil Science Course Descriptions (PS)

PS	535	3 hrs.	<p>ADVANCED SOIL CLASSIFICATION Classification system including the seventh approximation will be covered. Aerial photos and current reviews of literature will be used and discussed. Pre-requisite: PS 446.</p>
PS	548	3 hrs.	<p>ADVANCED SOIL MANAGEMENT Basically this course is designed to critically examine soil conservation practices and soil analysis, as well as showing the importance of soil moisture in the uptake of cation and anion and the functional roles of cations and anions in the nutrition of plants.</p>
PS	559	3 hrs.	<p>ADVANCED FERTILITY Advanced concepts of soil fertility with emphasis on physical, chemical, biological, and mineralogical properties of soils. Soil-plant relationships from nutritional standpoint and uses of different fertilizers under various soil conditions for better crop growth will be studied.</p>
PS	580	3 hrs.	<p>SOIL CHEMISTRY This course is designed to provide basic concepts of soil from its chemical standpoint. Soil chemistry as it is related to colloidal chemistry will be discussed.</p>
PS	590	3 hrs.	<p>ADVANCED RESEARCH TECHNIQUES This course is designed to prepare students to determine and evaluate the current problems in plant science. This will include literature reviews, research planning, and an organized attempt to collect information for answering the problems.</p>
PS	595	3 hrs.	<p>EXPERIMENTAL DESIGN Fundamental principles of experimental designs especially in relation to computation and analyses of biological research data.</p>

PS	600	3 hrs.	RESEARCH IN PLANT SCIENCE This course will be comprised of proper identification and execution of laboratory, greenhouse, and/or field experiments to meet a particular research goal in the area of plant science.
PS	601	3 hrs.	SPECIAL PROBLEMS IN VEGETABLE AND SMALL FRUIT PRODUCTION A general discussion of the modern principles and practices in efficient vegetable and small fruits; seeds and seed growing; managing soils and fertilizing; growing plants, handling, and transplanting; cultivating and rotating; irrigating and mulching, controlling insects and diseases, storing vegetables and small fruits; harvesting, handling, and marketing vegetables and small fruits.
PS	602	3 hrs.	SPECIAL PROBLEMS IN FORAGE PRODUCTION Problem identification, library, laboratory, greenhouse and/or field research will be included in one of the areas of forage establishment, production or management according to the individual's interest.
PS	610	3 hrs.	THESIS I
PS	611	2 hrs.	THESIS II
PS	612	1 hr.	THESIS III

ANIMAL SCIENCE

Program Description

The following learning outcomes are expected for the animal science option: (1) Students completing the graduate program in Animal Science will be knowledgeable in their academic area (2) students will be prepared for entry into a doctoral or professional program at various institutions; and (3) students completing the master's program in Animal Science will indicate their academic preparation contributed to their professional performance. The Animal Science option does not have a non-thesis plan).

Course Requirements

Core Courses (12 hours)		Credits
AS 533	Physiology and Anatomy of Farm Animals	3 hrs.
AS 523	Advanced Animal Nutrition	3 hrs.
AS 553	Physiology of Reproduction	3 hrs.
PS 590	Advanced Research Techniques	3 hrs.
Required Courses (9 hours)		Credits
PS 595	Experimental Design	3 hrs.
AS 610	Thesis I	3 hrs.
AS 611	Thesis II	2 hrs.
AS 612	Thesis III	1 hr.

Elective Courses (12 hours) to be chosen by the student under supervision and approval of advisor.) Credits

AS 503	Meat Science	3 hrs.
AS 544	Special Problems in Livestock Breeding	3 hrs.
BI 547	Advanced Field Biology and Ecology	3 hrs.
AN 500	Administration of Agricultural Education	3 hrs.
AN 510	Agricultural Education Media	3 hrs.
AG 558	Special Problems in Agricultural Mechanics	3 hrs.
AG 577	Advanced Farm Power and Machinery	3 hrs.
AE 525	Advanced Marketing	3 hrs.
AE 510	Resource Development	3 hrs.
PH 503	Educational and Psychological Statistics	3 hrs.
TOTAL		33 hrs.

Animal Science Course Descriptions (AS)

AS	503	3 hrs.	MEAT SCIENCE A study of meat value and applying this information to selection, evaluation, and preservation of meat and its by-products.
AS	523	3 hrs.	ADVANCED ANIMAL NUTRITION A study of the background of pertinent nutrients, introduction to analytical methods, and pertinent literature.
AS	533	3 hrs.	PHYSIOLOGY AND ANATOMY OF FARM ANIMALS A survey of structure and function of the animal body systems and a study of their interrelationships.
AS	544	3 hrs.	SPECIAL PROBLEMS IN LIVESTOCK BREEDING Advanced study of application of systems and methods of breeding to livestock production and experimental breeding.
AS	553	3 hrs.	PHYSIOLOGY OF REPRODUCTION Reproductive processes of mammals with special emphasis upon the physiology, production, and storage of sperm and ova. Endocrine control of reproduction will be discussed.
AS	610	3 hrs.	THESIS I
AS	611	2 hrs.	THESIS II
AS	612	1 hr.	THESIS III

AGRICULTURAL ECONOMICS (Non-Thesis Plan)

Program Description

The following desired outcomes are expected for the Agricultural Economics Option: (1) Students completing the M.S. degree program in Agricultural Economics will be knowledgeable about contemporary aspects of U.S. agricultural production and distribution; (2) Students completing the M.S. program in Agricultural Economics will be prepared to pursue advanced degrees at the doctoral level in a graduate school of their choice; (3) Students completing the M.S. program in Agricultural Economics will be prepared to contribute to the teaching of future generations; (4) Students completing the M.S. program in Agricultural Economics will be well prepared to accept positions in agriculture-related industries.

Course Requirements

Core Courses (9 hours Non-Thesis Plan)	Credits
AE 510 Resource Development	3 hrs.
AE 520 Advanced Farm Organization and Management	3 hrs.
AE 525 Advanced Marketing	3 hrs.
Required Courses (9 hours)	Credits
AE 515 Economics of Consumer Behavior	3 hrs.
PS 590 Advanced Research Techniques	3 hrs.
PS 595 Experimental Design	3 hrs.
Elective Courses (15 hours to be chosen by the student under supervision and approval of advisor.)	Credits
AE 511 Theory of Aggregative Demand and Supply for Agricultural Products	3 hrs.
AE 580 Organization and Operation of Cooperatives for Limited Resource People	3 hrs.
AE 601 Special Problems in Agricultural Economics	3 hrs.
AB 604 Agribusiness International Trade	3 hrs.
AN 515 Advanced Principles and Philosophy of Voc. Ed.	3 hrs.
AN 500 Administration of Agricultural Education	3 hrs.
AN 510 Agricultural Education Media	3 hrs.
AG 558 Special Problems in Agricultural Mechanics	3 hrs.
AG 577 Advanced Farm Power and Machinery	3 hrs.
EC 501 Advanced Microeconomics	3 hrs.
EC 502 Advanced Macroeconomics	3 hrs.
EC 520 Comparative Economic Systems	3 hrs.
EC 530 Economic Security and Social Welfare	3 hrs.
PH 504 Educational and Psychological Statistics	3 hrs.
MG 541 Survey of Management	3 hrs.
FI 530 Survey of Finance	3 hrs.
MG 560 Survey of Quantitative Methods	3 hrs.
TOTAL	33 hrs.

AGRICULTURAL ECONOMICS (Thesis Plan)

Course Requirements

Core Courses (9 hours)		Credits
AE 510	Resource Development	3 hrs.
AE 520	Advanced Farm Organization and Management	3 hrs.
AE 525	Advanced Marketing	3 hrs.
Required Courses (15 hours)		Credits
AE 515	Economics of Consumer Behavior	3 hrs.
PS 590	Advanced Research Techniques	3 hrs.
PS 595	Experimental Design	3 hrs.
AE 610	Thesis I	3 hrs.
AE 611	Thesis II	2 hrs.
AE 612	Thesis III	1 hr.
Elective Courses (9 hours) to be chosen by the student under supervision and approval of advisor.		Credits
AE 511	Theory of Aggregative Demand and Supply for Agricultural Products	3 hrs.
AE 580	Organization and Operation of Cooperatives for Limited Resource People	3 hrs.
AE 601	Special Problems in Agricultural Economics	3 hrs.
AB 604	Agribusiness International Trade	3 hrs.
AN 515	Advanced Principles and Philosophy of Voc. Ed.	3 hrs.
AN 500	Administration of Agricultural Education	3 hrs.
AN 510	Agricultural Education Media	3 hrs.
AG 558	Special Problems in Agricultural Mechanics	3 hrs.
AG 577	Advanced Farm Power and Machinery	3 hrs.
EC 501	Advanced Microeconomics	3 hrs.
EC 502	Advanced Macroeconomics	3 hrs.
EC 520	Comparative Economic Systems	3 hrs.
EC 530	Economic Security and Social Welfare	3 hrs.
PH 504	Educational and Psychological Statistics	3 hrs.
MG 541	Survey of Management	3 hrs.
FI 530	Survey of Finance	3 hrs.
MG 560	Survey of Quantitative Methods	3 hrs.
TOTAL		33 hrs.

Agricultural Economics Course Descriptions (AE)

AE	510	3 hrs.	RESOURCE DEVELOPMENT A study of the principles of land utilization; meaning, present status, importance and techniques of resource conservation and development; development for public and private land use. Particular emphasis will be directed to the role of agriculture and agricultural resources in economic development.
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AE	511	3 hrs.	<p>THEORY OF AGGREGATIVE DEMAND AND SUPPLY FOR AG. PRODUCTS</p> <p>Advanced theories of demand and supply, including topics in consumer behavior, theory of production and cost, theories of the firm and market organization; the course also covers advanced analytical techniques used to estimate demand and supply relations in agriculture. Students are expected to demonstrate practical knowledge through the development of empirical models.</p>
AE	515	3 hrs.	<p>ECONOMICS OF CONSUMER BEHAVIOR</p> <p>The course is designed to teach theoretical and applied economics to those with a direct or indirect interest in the consumer as a crucial economic unit in a market economy. It focuses on the economic organization of the household as a consuming unit. Primary emphasis will be placed on human capital development theories; economic welfare; the economics of poverty; consumption and saving relation models; time allocation models; consumer behavior; consumer equilibrium, household resources and activities. Attention will also be paid to consumption patterns and trends in the United States as well as other countries around the world.</p>
AE	525	3 hrs.	<p>ADVANCED MARKETING</p> <p>A study of the principles and problems associated with marketing of agricultural product-functional and commodity approaches. Students will be expected to conceptualize and analyze market data relative to conditions of competition</p>
AE	580	3 hrs.	<p>ORGANIZATION AND OPERATION OF COOPERATIVES FOR LIMITED RESOURCE PEOPLE</p> <p>A study of the organization and operation of cooperatives for limited resource people using the case method. Field trips will be made to limited resource cooperatives.</p>
AE	601	3 hrs.	<p>SPECIAL PROBLEMS IN AGRICULTURAL ECONOMICS</p> <p>Credits from 1-4 hours may be attained. May be taught on individual or group basis with one or more written reports treating special problems in several areas of agricultural economics.</p>
AE	610	3 hrs.	THESIS I
AE	611	2 hrs.	THESIS II
AE	612	1 hr.	THESIS III

Agricultural Engineering (AG)

AG	558	3 hrs.	<p>SPECIAL PROBLEMS IN AGRICULTURAL MECHANICS</p> <p>This course is primarily for graduate students with special interest in solving problems in agricultural mechanics.</p>
AG	577	3 hrs.	<p>ADVANCED FARM POWER AND MACHINERY</p> <p>The care, operation and maintenance of farm machinery with an emphasis in mechanization and cybernation.</p>

Agriculture Education (AN)

AN	500	3 hrs.	ADMINISTRATION OF AGRICULTURAL EDUCATION A careful study of the federal and state acts, laws and policies in vocational education governing agriculture.
AN	504	3 hrs.	CURRICULA AND PROGRAMS FOR TEACHING RURAL DISADVANTAGED An analysis of programs and curricula with emphasis on the disadvantaged. Pre-requisite: AN 487 or consent of advisor.
AN	506	3 hrs.	ADVANCED METHODS, TECHNIQUES, AND DEVICES IN TEACHING AGRICULTURE This study is concerned with analysis, administration and evaluation of methods, techniques and devices used in teaching agriculture.
AN	510	3 hrs.	AGRICULTURAL EDUCATION MEDIA This course deals with the sources, selection, evaluation, and use of material related to agriculture.
AN	515	3 hrs.	ADVANCED PRINCIPLES AND PHILOSOPHY OF VOCATIONAL EDUCATION This course is designed primarily for those people who are engaged in the profession of vocational education. AN 315 is a similar course and is needed before enrolling in this course.
AN	584	3 hrs.	ADVANCED OCCUPATIONAL INFORMATION An extension of AN 484. An examination and analysis in the world of work with emphasis toward teaching.
AN	601	3 hrs.	SPECIAL PROBLEMS IN AGRICULTURAL EDUCATION An observation, identification, and analysis of problems related to teaching agriculture. Primarily designed for in-service teachers.
AN	610	3 hrs.	THESIS I
AN	611	2 hrs.	THESIS II
AN	612	1 hr.	THESIS III

ENDORSEMENT AREA: AGRICULTURAL EDUCATION

Program Description

The following learning outcomes are expected for the Agricultural Education Endorsement: (1) students completing the program will be well trained and proficient in the technical fields of agriculture; (2) the students will master the skills and techniques for teaching youth and adults leadership and life skills; (3) graduates of the program will be competent extension educators, and program development specialists; (4) graduates of the program will acknowledge that they had adequate preparation to become competent teachers of Agriculture (6-12); and that they are prepared for agriculture-related careers in the government agencies and in industry

Course Requirements

Core Education Courses (12 Hours)		Credits
ED 512	Foundations of American Education.	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses (9 Hours Non-Thesis/15 Hours Thesis)		Credits
AN 500	Administration of Agricultural Education	3 hrs.
AN 506	Advanced Methods of Teaching	3 hrs.
AN 515	Advanced Principles of Agricultural Education	3 hrs.
AN 610	Thesis I	3 hrs.
AN 611	Thesis II	2 hrs.
AN 612	Thesis III	1 hr.
Electives (6 Hours Thesis / 12 Hours Non-Thesis)		Credits
AN 510	Agricultural Education Media	3 hrs.
AN 511	Youth Organization and Program Management	3 hrs.
AN 601	Special Problems in Agricultural Education	3 hrs.
PS 535	Advanced Soil Classification	3 hrs.
PS 548	Advanced Soil Management	3 hrs.
PS 601	Special Problems in Vegetable and Small Fruits	3 hrs.
AE 525	Advanced Agricultural Marketing	3 hrs.
AE 520	Advanced Farm Organization and Management	3 hrs.
AE 601	Special Problems in Agricultural Economics	3 hrs.
AS 523	Advanced Animal Nutrition	3 hrs.
AS 533	Physiology and Anatomy of Farm Animals	3 hrs.
AS 553	Physiology of Reproduction	3 hrs.
PH 503	Education and Psychological Statistics	3 hrs.
TOTAL		33 hrs.

Agriculture Education Course Descriptions (AN)

AN	500	3 hrs.	ADMINISTRATION OF AGRICULTURAL EDUCATION A careful study of the federal and state acts, laws and policies in vocational education governing agriculture.
AN	504	3 hrs.	CURRICULA AND PROGRAMS FOR TEACHING RURAL DISADVANTAGED An analysis of programs and curricula with emphasis on the disadvantaged. Pre-requisite: AN 487 or consent of advisor.
AN	506	3 hrs.	ADVANCED METHODS, TECHNIQUES, AND DEVICES IN TEACHING AGRICULTURE This study is concerned with analysis, administration and evaluation of methods, techniques and devices used in teaching agriculture.

AN	510	3 hrs.	AGRICULTURAL EDUCATION MEDIA This course deals with the sources, selection, evaluation, and use of material related to agriculture.
AN	511	3 hrs.	YOUTH ORGANIZATION AND PROGRAM MANAGEMENT Needs and interest of youth; developing, managing, and evaluating formal and non-formal youth education programs; volunteer and paraprofessional staff development; securing and developing supportive resources.
AN	515	3 hrs.	ADVANCED PRINCIPLES AND PHILOSOPHY OF VOCATIONAL EDUCATION This course is designed primarily for those people who are engaged in the profession of vocational education. AN 315 is a similar course and is needed before enrolling in this course.
AN	584	3 hrs.	ADVANCED OCCUPATIONAL INFORMATION An extension of AN 484. An examination and analysis in the world of work with emphasis toward teaching.
AN	601	3 hrs.	SPECIAL PROBLEMS IN AGRICULTURAL EDUCATION An observation, identification, and analysis of problems related to teaching agriculture. Primarily designed for in-service teachers.
AN	610	3 hrs.	THESIS I
AN	611	2 hrs.	THESIS II
AN	612	1 hr.	THESIS III

"We must open the doors of opportunity. But we must also equip our people to walkthrough those doors."

DEPARTMENT OF ADVANCED TECHNOLOGIES

Jeremiah Billa, Ph.D., Interim Department Chairperson
Simmons Industrial Technology Building
1000 ASU Drive #360
Phone: 601 877-6482 FAX: 601-877-3941

Degree	Required Admission Test
Master of Science in Applied Science and Technology: Computer Systems and Networks Technology	GRE General Test
Master of Science in Applied Science and Technology: Electrical and Electronics Engineering Technology	GRE General Test
Master of Science in Applied Science and Technology: Geospatial Engineering Technology	GRE General Test
Master of Science in Applied Science and Technology: Homeland Security Management	GRE General Test
Master of Science in Applied Science and Technology: Radiological Health Science (Health Physics)	GRE General Test
Master of Science in Applied Science and Technology: Technology Management	GRE General Test

GRADUATE FACULTY

David Addae, Professor of Advanced Technologies, B.S., Central New England College of Technologies; M.S., North Carolina A&T State University; Ed.D., Mississippi State University

Steve Adzanu, Associate Professor of Advanced Technologies, B.S., University of Science and Technology (Kumasi, Ghana); M.S., University of Saskatchewan-Saskatoon, Canada; Ph.D., University of Saskatchewan-Saskatoon, Canada

Kwabana Agyepong, Associate Professor of Advanced Technologies, University of Science and Technology (Kumasi, Ghana); M.B.A., University of Cincinnati; Ph.D., University of Cincinnati

Jeremiah Billa, Interim Chairperson, Department of Advanced Technologies and Instructor of Advanced Technologies, B.S., Nagarjuna University (Guntur, Andhra Pradesh, India); M.S., Idaho State University

Jessica Buck, Adjunct, Advanced Technologies, B.S., Alcorn State University; M.S., Mississippi State University; Ph.D., Mississippi State University

Mamie Griffin, Assistant Professor of Advanced Technologies, B.S., Alcorn State University; M.S., Texas A&M University-Commerce; Ph.D., University of Southern Mississippi

Fred Lawrence, Assistant Professor of Advanced Technologies, B.A., Southern University; M.A., Southern University; Ed.S., Northern Illinois University; Ph.D., Northern Illinois University

Sam Nwaneri, Assistant Professor of Advanced Technologies, B.S., Harding University; M.S., Alabama A&M University; Ph.D., Alabama A&M University

Yufeng Zheng, Associate Professor of Advanced Technologies, B.S., Tianjin University, China; M.S., Tianjin University, China; Ph.D., Tianjin University, China

Ping Zhang, Assistant Professor of Computer Science, B.A., Chong Qing University; M.S., Chong Qing University; Ph.D., Chong Qing University; Ph.D., Concordia University, Canada

MASTER OF SCIENCE IN APPLIED SCIENCE AND TECHNOLOGY

Program Description

Master of Science in Applied Science and Technology is designed to provide access to technical graduate work in Southwest Mississippi and the rural counties served. The intended student audience is all technical undergraduate majors in the areas of engineering, technology, applied science, and physical sciences.

The concentrations are offered with the thesis and project options. Both thesis and project options require a minimum of 36 credit hours to graduate: 30 course hours and 6 hours of *thesis-and-defense or project-and-defense*. The two options offer students the opportunity to fulfill their academic aspirations and course requirements through a thesis or non-thesis track.

Stakeholders involved in the design and delivery of this graduate program include the Systems Research Institute (SRI), an Institutions of Higher Learning of Mississippi approved institute, the Department of Advanced Technologies, Industry and Businesses in Southwest Mississippi. The institute operates a technology incubator in Southwest Mississippi, focused on technology based economic development. There are several centers and labs which comprise the institute. The scientist in the institute and faculty in the Department of Advanced Technologies together with graduates focus on solving technology based problems for business, industry, and entrepreneurs in Southwest Mississippi, the United States, and internationally. Projects are focused on development of prototypes and solving real world industry and business related problems using the partnership of the stakeholders listed.

Advisory Council: The academic advisory committee includes relevant industry partners such as, Grand Gulf, Entergy, Ergon, Engineering Research Development Center (ERDC), and the US Army Corp of Engineers. Federal agencies supporting research of faculty and scientists working with the department of Advanced Technologies and the Systems Research Institute include: DOD, AFRL, SBA, DHS, DOE, NRC, and DOED etc.

The graduate program offers both online and conventional face-to-face classroom delivery of instruction and training. This is intended to maximize the convenience to students from remote locations which are enrolled in the program.

Student Learning Outcomes:

The educational objectives of the Master of Science in Applied Science & Technology Degree program include:

Students should be able to:

- 1) Understand and communicate mathematics underlying relevant/appropriate research work in engineering, technology, and physical sciences;
- 2) Effectively use modeling tools/software tools, and implement algorithms on appropriate platforms such as math lab, C++ etc.
- 3) Use project management tools effectively; and

Admission:

Admission directly into the graduate program requires a 2.75 cumulative GPA with 3.0 minimum in the senior year of undergraduate work from an accredited program. Decisions are made based on the combination of GRE, prior work experience, statement of career goals, and letters of recommendation. Prospective students with work

experience or transferable credits will be individually evaluated and are encouraged to apply. Applicants must submit with their application a resume that highlights professional and personal accomplishments, technical expertise, and leadership experience. Undergraduate students in STEM areas may be approved for nine (9) hours of graduate credit toward the completion of the Master's Program requirement in their senior year. With additional nine (9) graduate hours completed during the summer of their graduation year of their bachelor's degree, it is possible to complete both the Bachelor's and Master's degree in five years. Admitted students taking advantage of this program with proper permissions and advising have an opportunity to earn a dual bachelor's and master's degree within five years.

Approval for taking courses toward the M.S. in Applied Science & Technology for undergraduate students at ASU with a STEM related area of study includes a cumulative grade point average of 3.0. Full admission into the graduate program will require a BS degree in Applied Science or Engineering Technology, Mathematics, Physics, Engineering, Technology, Mathematics, Physics, or equivalent with a cumulative bachelor's grade point of 2.75 or higher, with a combined 3.0 in the senior years. Students must satisfy Alcorn State University Graduate school admission requirements. Applicants must submit with their application a resume that highlights professional and personal accomplishments, linguistic abilities, technical expertise and leadership experience.

COMPUTER SYSTEMS & NETWORKS TECHNOLOGY

Program Description

The Computer Systems and Networks Technology concentration focuses on Computer Networking and Management, providing advanced study in the implementation and management of information technology. The program covers hardware and software experiences in advanced technologies used in the design, implementation, administration, monitoring, optimization, and maintenance of data communication and computer networking systems in industry. Graduation from this concentration opens up career opportunities in occupations such as: Chief Information Officer, Network Architect, Information Security Officer, Network Administrator, Corporate Technology Trainer, Computer Analyst, Information Systems Consultant, and Technology Integration Specialist.

Course Requirements

Core Courses (12 hours Thesis/Non-Thesis Plan)	Credits
ST 512 Mathematics for AS&T	3 hrs.
ST 514 Computation in AS&T	3 hrs.
ST 516 Project Management	3 hrs.
ST 510 Research Methods in AS&T	3 hrs.
Thesis and Project Option (6 hours)	Credits
ST 610 Thesis	6 hrs.
OR	
ST 5xx Approved Elective	3 hrs.
ST 615 Project	3 hrs.
Restricted Electives (18 hours)	Credits
ST 580 Information Security Mgmt.	3 hrs.
ST 581 Network Mgmt. Technology	3 hrs.
ST 582 Network Security	3 hrs.
ST 583 Info. Infrastructure Design	3 hrs.

ST 584	Enterprise Web Development	3 hrs.
ST 585	Distributed Systems & Cloud Computing	3 hrs.
ST 586	Data Science and Big Data Analytics	3 hrs.
ST 587	Information Storage and Management	3 hrs.
ST 588	Cloud Infrastructure and Services	3 hrs.
ST 600	Special Topics (Applied Science and Technology)	3 hrs.
ST 5/6XX	Approved Elective(s)	6 hrs.
TOTAL		36 hrs.

APPLIED SCIENCE CORE COURSE DESCRIPTIONS

ST	510	3 hrs.	<p>RESEARCH METHODS IN AS&T Research design, qualitative and quantitative research, sources of data. Data collection procedures, measurement strategies, questionnaire design, interviewing techniques, content analysis, literature surveys, information data bases, probability testing, and inferential statistics.</p>
ST	512	3 hrs.	<p>MATHEMATICS FOR APPLIED SCIENCE AND TECHNOLOGY The course exposes students to concepts of mathematics encountered throughout the physical science, engineering and technology management disciplines. This course explores the diversity of math and is focused on developing quantitative skill and reasoning ability. Topics include mathematical methods to solve graduate level Applied Science, Engineering and Technology Management problems. Includes a research project applying the student's skills and background to an engineering, technology management or science-oriented project.</p>
ST	514	3 hrs.	<p>COMPUTATION IN AS&T The course is an introduction to computational methods with emphasis on programming and problem solving skills using a variety of software tools. A brief introduction to computer architecture, numbering systems and data representation will be given in the beginning followed by topics introducing students to computational methods, and a systems approach to problem solving. Students learn to plan and design computer programs using defining diagrams and solution algorithms expressed in pseudo-code, and flowcharts.</p>
ST	516	3hrs.	<p>PROJECT MANAGEMENT Provide students with tools to manage projects and operations to ensure that a project is completed on time, within budget, and with high quality by exploring specific techniques for accomplishing those three goals. Prepare students to manage people, budgets, scheduling, and quality of project. This course also prepares students for technical and professional communication. Students will learn how to gather, organize, and present information effectively according to audience and purpose.</p>

COMPUTER SYSTEMS & NETWORKS TECHNOLOGY COURSE DESCRIPTIONS

ST	580	3 hrs.	<p>INFORMATION SECURITY MANAGEMENT Survey of information security terms, concepts, principles, and applications in data networking environment.</p>
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ST	581	3 hrs.	NETWORK MANAGEMENT TECHNOLOGY Current technologies to address enterprise wide data communication network management. Topics include planning and deploying hardware and software solutions for enterprise network management.
ST	582	3 hrs.	NETWORK SECURITY Survey of security challenges to data communication and computer networks. The topics include evaluation of networks security threats, fundamental configuration of enterprise network devices, and enterprise network security policy development.
ST	583	3 hrs.	INFORMATION INFRASTRUCTURE DESIGN Advanced features in providing reliable information infrastructure for organizations. Topics include current and future development of dynamic routing and switching protocols, such as OSPF, BGP, MLS, etc. covers issues on IPv6 and its deployment.
ST	584	3 hrs.	ENTERPRISE WEBSITE DEVELOPMENT Latest technology in developing successful web sites on the internet as relates to industry and business applications, including protocols, standards and programming tools. Modern technologies for providing dynamic content with enterprise websites. Topics include creation and management of dynamic web services.
ST	585	3 hrs.	DISTRIBUTED SYSTEMS & CLOUD COMPUTING Study of integrated web services to a successful enterprise web presence. Topics include development of web site with multiple integrated services, website performance, and security considerations. Latest technology in developing successful web sites on the internet as relates to industry and business applications, including protocols, standards and programming tools. Modern technologies for providing dynamic content with enterprise websites. Topics include creation and management of dynamic web services.
ST	586	3 hrs.	DATA SCIENCE AND BIG DATA ANALYTICS This course provides practical foundation level training that enables immediate and effective participation in big data and other analytics projects and establishes a skills baseline that can be enhanced by further formal training and additional real-world experiences. The course provides a process framework for tackling business problems that leverage big data, a grounding in the theory behind key analytical techniques and an introduction to big data analytics technology and tools. The course has extensive hands-on labs to experience the application of these techniques and tools and includes a final hands-on lab where the course learning is applied to a big data analytics problem.
ST	587	3 hrs.	INFORMATION STORAGE AND MANAGEMENT This course covers challenges and solutions for data storage and management. Intelligent storage systems are covered, as well as storage networking, backup recovery and archiving, business continuity and disaster recovery, storage security and virtualization, and managing and monitoring the storage infrastructure.

ST	588	3 hrs.	<p>CLOUD INFRASTRUCTURE AND SERVICES</p> <p>The Cloud Infrastructure and Services (CIS) course educates participants about cloud deployment and service models, cloud infrastructure, and the key considerations in migrating cloud computing. For all definitions of cloud computing, the course has resorted to the U.S. national Institute of Standards and Technology as a guide. The course covers technologies required to build classic (traditional), virtualized, and cloud data center environments. These technologies include compute, storage, networking, desktop, and application virtualization. Additional areas of focus include backup/recovery, business continuity, security, and management. Students will learn about the key considerations and steps involved in transitioning from the current state of their data center to a cloud computing environment. Upon completing the course, participants will have the knowledge to make informed decisions about migrating to cloud infrastructure and choosing the best deployment model for their organization.</p>
ST	589	3 hrs.	<p>ADVANCED PROGRAMMING (C#) AND ITS APPLICATION TO INDUSTRY</p> <p>The course will cover the following contents: basic Object-Oriented Technology in C# (C++), such as the concepts of class, inheritance, polymorphism, operator overloading, and IO streams; image data input/output manipulations, fundamental pattern recognition and image processing algorithm analysis and implementation, project schedule, documentation and test strategy. Some application examples of image medical diagnostics, industrial inspection, handwriting analysis, face recognition, security and surveillance, etc., will be analyzed in the course.</p>
ST	610	6 hrs.	<p>THESIS</p> <p>Hours for thesis research including written and oral defense of thesis.</p>
ST	615	3 hrs.	<p>PROJECT</p> <p>Approved industry based project culminating in a prototype and an oral defense of a written project report.</p>

ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY

Program Description

Electrical and Electronics Engineering technologist conducts research, and designs, develops, tests, and oversees the development of electronic systems and the manufacture of electrical and electronic equipment and devices. From the global positioning system that can continuously provide the location of a vehicle to giant electric power generators, electrical and electronics engineers are responsible for a wide range of technologies.

Course Requirements

Core Courses (12 hours)	Thesis/Project Options	Credits
ST 512	Mathematics for AS&T	3 hrs.
ST 514	Computation in AS&T	3 hrs.
ST 516	Project Management	3 hrs.
ST 510	Research Methods in AS&T	3 hrs.

Thesis and Project Option (6 hours)		Credits
ST 610	Thesis	6 hrs.
	OR	
ST 5xx	Approved Elective	3 hrs.
ST 615	Project	3 hrs.
Restricted Electives (18 hours)		Credits
ST 530	Automation	3 hrs.
ST 531	Electric Machinery	3 hrs.
ST 532	Electronics	3 hrs.
ST 533	Semiconductor Devices	3 hrs.
ST 534	Power System Analysis and Design	3 hrs.
ST 535	Analog Electronic Circuits	3 hrs.
ST 536	Electronic Communications Circuits and Systems	3 hrs.
ST 537	Digital Electronic Circuits	3 hrs.
ST 538	Electromagnetic Fields	3 hrs.
ST 539	RF & Microwave Technology	3 hrs.
ST 5xx	Approved Electives	6 hrs.
TOTAL		36 hrs.

ELECTRICAL AND ELECTRONICS ENGINEERING TECHNOLOGY COURSE DESCRIPTIONS

ST	530	3 hrs.	<p>AUTOMATION</p> <p>A study of the applications of automation systems, including identification of system requirements, equipment integration, actuators, controllers, and sensors. This course will include selected case studies of automated systems in aerospace, defense, medical, petroleum, transportation, airport operation, and homeland security.</p>
ST	531	3 hrs.	<p>ELECTRIC MACHINERY</p> <p>This course introduces the student to the principles of electrical machinery. Topics covered include: Transformers, AC machinery fundamentals, synchronous generators, synchronous motors, induction motors, DC machinery fundamentals, DC motors and generators, AC and DC motor drives.</p>
ST	532	3 hrs.	<p>ELECTRONICS</p> <p>This course provides a comprehensive treatment of topics in electronic devices. This course is designed to give the student an understanding of the fundamental theories and applications of electronic devices such as Junction Field-Effect Transistors, Metal Oxide Semiconductor Field-Effect Transistors, Operational Amplifiers, Thyristors, and active filters. Topics to be covered include basic to advance theories of electronics devices such as diodes, Bipolar-Junction transistors, and Operational amplifiers with hands-on laboratories to be complemented by the use of software simulation packages. Also, fundamentals of microprocessors will be explained.</p>

ST	533	3 hrs.	<p>SEMICONDUCTOR DEVICES</p> <p>The course introduces the student to the physics and operation of semiconductor devices. Topics include: PN junction diodes, bipolar junction transistors (BJTs), field effect transistors (FETs) such as junction field effect transistors (JFETs), metal oxide semiconductor field effect transistors (MOSFETs), metal semiconductor field effect transistors (MESFETs), thyristors, silicon controlled rectifiers, etc.</p>
ST	534	3 hrs.	<p>POWER SYSTEM ANALYSIS AND DESIGN</p> <p>This course covers the methods of analysis and design of electric power systems. Topics covered include: Fundamental principles (phasors, complex power, network equations, balanced three-phase circuits, etc.). power transformers, transmission lines, power flow, symmetrical and unsymmetrical faults, symmetrical components, power system protection power system stability and power system controls.</p>
ST	535	3 hrs.	<p>ANALOG ELECTRONIC CIRCUITS</p> <p>The course covers diode circuits such as clippers and clampers, rectifiers and power supplies, BJT and FET amplifiers, oscillators, modulators, demodulators, mixers, filters, operational amplifiers, etc. The course is supported by laboratory exercises and simulation software packages.</p>
ST	536	3 hrs.	<p>ELECTRONIC COMMUNICATIONS CIRCUITS & SYSTEMS</p> <p>This course investigates the fundamental concepts of electronic communications systems. Topics include: Amplitude Modulation (AM), Frequency Modulation (FM), Phase Modulation (PM), digital modulation schemes, principles of power spectra and time domain analysis.</p>
ST	537	3 hrs.	<p>DIGITAL ELECTRONIC CIRCUITS</p> <p>This course provides a comprehensive treatment of topics in electronic devices. This course is designed to give the student an understanding of the fundamental theories and applications of electronic devices such as Junction Field-Effect Transistors, Metal Oxide Semiconductor Field-Effect Transistors, Operational Amplifiers, Thyristors, and active filters. Topics to be covered include basic to advance theories of electronic devices such as diodes, Bipolar-Junction transistors, and Operational amplifiers with hands on laboratories to be complemented by the use of software simulation packages. Also, fundamentals of microprocessors will be explained.</p>
ST	538	3 hrs.	<p>ELECTROMAGNETIC FIELDS</p> <p>The course introduces the student to principles of electromagnetic fields. The course covers vector analysis, electrostatics fields, magnetostatic fields. Maxwell's equations, propagation of uniform plane waves, transmission lines, and waveguides and cavity resonators, antennas.</p>
ST	539	3 hrs.	<p>RF AND MICROWAVE TECHNOLOGY</p> <p>The course emphasizes the fundamental concepts of electromagnetic, wave propagation, network analysis, and design principles applicable to modern radio frequency (RF) and microwave engineering. Topics covered are: electromagnetic theory, transmission line theory, transmission lines and waveguides, microwave network analysis, impedance matching and tuning, microwave resonators. Computer aided design (CAD) software packages will be used, power dividers and directional couplers, microwave filters, theory and design of ferromagnetic components, noise and active RF components, microwave and RF amplifier</p>

design, oscillators and mixers, introduction to RF and microwave systems. Computer aided design (CAD) software packages will be used.

TECHNOLOGY MANAGEMENT

Program Description

The Technology Management concentration prepares graduates to address today's complex business problems with innovative solutions. Organizations require managers and leaders that understand the importance of business knowledge, technology and innovation in driving organizational value to increase competitiveness. Therefore, the program offers graduates the needed interdisciplinary skills to successfully compete in today's team-oriented, horizontally organized and globally competitive workplace. Graduates are prepared to manage people, processes, and information in public and private sectors. Emphasis is placed on various facets including strategic, behavioral, organizational, and social topics.

Course Requirements

Core Courses (12 hours Thesis/Non-Thesis Plan)	Credits
ST 512 Mathematics for AS&T	3 hrs.
ST 514 Computation in AS&T	3 hrs.
ST 516 Project Management	3 hrs.
ST 510 Research Methods in AS&T	3 hrs.
 Thesis and Project Option (6 hours)	 Credits
ST 610 Thesis	6 hrs.
OR	
ST 5xx Approved Elective	3 hrs.
ST 615 Project	3 hrs.
 Restricted Electives (18 hours)	 Credits
ST 566 Project Mgmt. and Operations	3 hrs.
ST 568 Total Quality Management	3 hrs.
ST 560 Bus. Plan for New Tech Ventures	3 hrs.
ST 5xx Approved Electives	6 hrs.
ST 562 New Product Development	3 hrs.
TOTAL	36 hrs.

TECHNOLOGY MANAGEMENT COURSE DESCRIPTIONS

ST	545	3 hrs.	<p>OPERATIONS RESEARCH Operations management conveys skills in “set plays or thematic groups” as tools to apply to marketplace, through productivity, for competitive advantage. These thematic productivity groups, evolve with socioeconomic and cultural needs or demands in business, starting with natural resource management systems, digital and virtual customization of customers’ and market communities, electronic commerce enterprise, and supply chain logistics. The studies are equipped with the knowledge that technology is equivalent to product modeling, and appeals to</p>
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direct services in the making of products. Impacts and involvements of mathematics in operations research deal with analysis and cross validation of functions, especially in convoluted systems or networks. The objective of this course is to manage change and available resources to enhance productivity and competition.

ST	560	3 hrs.	<p>BUSINESS PLANNING FOR NEW TECHNOLOGY VENTURES Analysis including feasibility (studies and product impact) and creation of a business plan for a new business venture including demand forecasting, financial modeling, selling of the new business idea, and other issues for current business conditions.</p>
ST	562	3 hrs.	<p>NEW PRODUCT DEVELOPMENT Explores engineering and business topics important to the development of innovative customer-driven engineering products. Design optimization, innovative thinking and the principles and methodologies of product development are examined. Students are taught the tools, techniques and organizational structures that support new product development.</p>
ST	564	3 hrs.	<p>MANAGEMENT FOR TECHNOLOGY INNOVATION This course examines communication and key management functions including: envisioning and strategic planning, creating high performance teams, establishing appraisal/reward systems, and innovation and organizational change. Emphasis on leading innovative technical people, leadership that fosters entrepreneurship, and new forms of organizing.</p>
ST	566	3 hrs.	<p>PROJECT MANAGEMENT AND OPERATIONS Provide students with tools to manage projects and operations to ensure that a project is completed on time, within budget, and with high quality by exploring specific techniques for accomplishing those three goals. Prepare students to manage people, budgets, scheduling, and quality of project.</p>
ST	568	3 hrs.	<p>TOTAL QUALITY MANAGEMENT This course focuses on the essence, principles, and practices of total quality management (TQM) in industry. The subjects and topics covered are: process improvement, process orientation, service quality, human resources, customer satisfaction programs, quality function deployment, process control and capability, role of inspection, economics of quality, productivity measurement, and learning and organizational performance measures.</p>

GEOSPATIAL ENGINEERING TECHNOLOGY

Program Description

The Geospatial Engineering Technology (GET) has broad emphasis on transportation and natural resources. It is offered in two specialty areas: 1) Transportation and 2) Natural Resource Management (NRM). Both areas are offered with the thesis and project options. The two options offer students the opportunity to fulfill their course requirements and academic aspirations. A total of 24 hours may be selected from the listed restricted electives.

Course Requirements

Core Courses (12 hours Thesis/Non-Thesis Plan)		Credits
ST 512	Mathematics for AS&T	3 hrs.
ST 514	Computation in AS&T	3 hrs.
ST 516	Project Management	3 hrs.
ST 510	Research Methods in AS&T	3 hrs.
Thesis and Project Option (6 hours)		Credits
ST 610	Thesis	6 hrs.
	OR	
ST 5xx	Approved Elective	3 hrs.
ST 615	Project	3 hrs.
Restricted Electives (18 hours)		Credits
ST 540	Composite Mapping & Surface Characterization	3 hrs.
ST 541	Radiation Theory and Applications	3 hrs.
ST 542	Prob. & Stat. Decision Theories	3 hrs.
ST 543	Advanced Computer Cartography	3 hrs.
ST 545	Operations Research	3 hrs.
ST 643	Microwaves Remote Sensing	3 hrs.
ST 5xx	Approved Electives	6 hrs.
TOTAL		36 hrs.

GEOSPATIAL ENGINEERING TECHNOLOGY COURSE DESCRIPTIONS

ST	540	3 hrs.	<p>COMPOSITE MAPPING AND SURFACE CHARACTERIZATION</p> <p>This course must cover and complete the following seven mini projects in land surveying: 1 ;) Plane and solid geometry 2) Basic theodolite surveying 3) Compass Surveying 4) Chain surveying 5) Hydrographic surveying 6) Topographic surveying and mapping 7) Leveling, and 8) Resolution of land survey and modern applications of GPS and GIS technologies. The objective is to create balanced geospatial knowledge for students' development in any branch of engineering.</p>
ST	541	3 hrs.	<p>RADIATION THEORY AND APPLICATIONS</p> <p>This course builds proper knowledge for students to understand scientific observations and nomenclature schemas for sources of radiation. It presents radiation theory to the student to be able to differentiate between radiometric and photometric observations, applications and symbiology, including properties of radiation--functions, geometry, temperature, and processes. It further deals with artificial sources of radiation for surface and subsurface data (Target) acquisition with commercial applications in agriculture and security initiatives (as with the DOD). The modeling uses radioactive transfer modeling to focus on the determination of properties of natural materials, such as soil, rocks, and minerals; thermal modeling will be utilized for moving vehicles. Secondary or dynamic</p>

burden deals with classifications of moving phenomena such as in epidemiology, environmental health, contamination vectors, and military and protected area burden classifications. The demand on this burden is usually acquisition, processing and classification of target signatures.

ST	542	3 hrs.	<p>PROBABILITY & STATISTICAL DECISION THEORIES</p> <p>The evolution of society and the needs to communicate faster and over a long distance is ever increasing. This is placing severe emphasis on the definition of human and economic well-being. Although engineering requires details but this course is focused on specifics of communication systems, like analysis and synthetic approaches to communication problems. Homeland security DSS runs on different methods, such as cellphones, internet, scrambled radio channels; some are available on different electromagnetic windows. Therefore, specificity and methodology will facilitate communication network links and the diagnostics of their problems.</p>
ST	543	3 hrs.	<p>ADVANCED COMPUTER CARTOGRAPHY</p> <p>This course is an overview of the Homestead, general land use and transportation planning in the U.S. The focus is on physical and constitutional provisions for citizen participation in land ownership, development, including legal practices, federal and state government policies and provisions. Students must take and complete seven state symposia projects involving feasibility and impact studies on environmental, engineering, economic, and management [F (x) 3EM] in four U.S. regions—east, west, north, and south.</p>
ST	545	3 hrs.	<p>OPERATIONS RESEARCH</p> <p>Operations management conveys skills in “set plays or thematic groups” as tools to apply to marketplace, through productivity, for competitive advantage. These thematic productivity groups, evolve with socioeconomic and cultural needs or demands in business, starting with natural resource management systems, digital and virtual customization of customers’ and market communities, electronic commerce enterprise, and supply chain logistics. The studies are equipped with the knowledge that technology is equivalent to product modeling, and appeals to direct services in the making of products. Impacts and involvements of mathematics in operations research deal with analysis and cross validation of functions, especially in convoluted systems or networks. The objective of this course is to manage change and available resources to enhance productivity and competition.</p>
ST	643	3 hrs.	<p>MICROWAVES REMOTE SENSING</p> <p>Microwave signal is the dominant in communication and information systems; from common radio signals to top military signals and frequencies for jamming and spying on the enemy. Most interesting, the digital and electronic marketplace use microwave signals. This includes the huge internet and all handheld mobile devices like cellphones and GPS units. Further, in the electromagnetic spectrum windows, microwaves have special remote sensing characteristics that create special knowledge among other remote sensing windows and platforms. The objective of this course is to unfold this knowledge and link it with the digital society and electronic markets.</p>

HOMELAND SECURITY MANAGEMENT

Program Description

Homeland Security will be a top priority and a critical issue for local, state, and the federal government as well as the corporate sector in the next decades. As America continues to face threats, the need for professionals with applied knowledge, solid skills, and practical experience will increase.

Graduates of the program will possess proficiency in the research, development, and analysis of security strategies; critical agency infrastructures and their inter-relationships; team leadership and cooperative planning; and formulating and executing integrated, rapid responses to crisis situations. **Note:** The sequence of courses listed applies to students in the dual Bachelors and Master's degree. Other students will select courses in consultation with academic advisor.

Course Requirements

Core Courses (12 hours Thesis/Non-Thesis Plan)	Credits
ST 512 Mathematics for AS&T	3 hrs.
ST 514 Computation in AS&T	3 hrs.
ST 516 Project Management	3 hrs.
ST 510 Research Methods in AS&T	3 hrs.
Thesis and Project Option (6 hours)	
ST 610 Thesis	6 hrs.
OR	
ST 5xx Approved Elective	3 hrs.
ST 615 Project	3 hrs.
Restricted Electives (18 hours)	
ST 550 Principles of Homeland Security	3 hrs.
ST 552 Technology for Homeland Security	3 hrs.
ST 553 Critical Infrastructure Analysis	3 hrs.
ST 554 Vulnerability Analysis and Protection	3 hrs.
ST 5xx Approved Electives	6 hrs.
ST 556 Emergency Management (Fifth Year Fall)	3 hrs.
TOTAL	36 hrs.

HOMELAND SECURITY MANAGEMENT COURSE DESCRIPTIONS

ST	550	3 hrs.	PRINCIPLES OF HOMELAND SECURITY This course provides an overview of the essential ideas that constitute the emerging discipline of homeland security. It has two central objectives: to expand the way participants think, analyze and communicate about homeland security; and to assess knowledge in critical homeland security knowledge domains: including strategy, history, terrorism, fear management, crisis communication, conventional and unconventional threats, network leadership, weapons of mass destruction, lessons learned from other nations, civil liberties and security, intelligence and information, homeland security technology, and analytics.
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- ST 551 3 hrs. **PRINCIPLES OF CONSTRUCTION MANAGEMENT**
The principles of construction management are required for an emergency responder to swiftly serve good purpose during emergencies. For example, the ability to read blueprints and understand basic building construction is a required skill. Secondly, the student is made to know regulations and compliances in order to avoid creating hazard situations in addition to an existing emergency. This knowledge is also important during debris recovery, installation, and management of new shelters in the affected areas.
- ST 552 3 hrs. **TECHNOLOGY FOR HOMELAND SECURITY**
This course provides individuals involved in homeland security a broad overview of homeland security technology, information systems, inspections and surveillance technology, communications, knowledge, management and information security. The course focuses on technology as a tool to support homeland security personnel regardless of functional specialty. The methodology used in the course will frame technology in terms of its contribution to deterrence; preemption; prevention; protection; response after an attack.
- ST 553 3 hrs. **CRITICAL INFRASTRUCTURE ANALYSIS**
Critical infrastructure protection is one of the cornerstones of homeland security. The National Strategy for Protection of Critical Infrastructure and Key Assets lists 11 sectors: Water, Power & Energy, Information & Telecommunications, Chemical Industry, Transportation, Banking & Finance, Defense Industry, Postal & Shipping, Agriculture & Food, Public Health, and Emergency Services. Based on assigned readings of key government documents, independent reports and expert analyses, the student will gain enough knowledge on the vast scope of activities required to protect the nation's most essential asset.
- ST 555 3 hrs. **REMOTE SENSING & DATA ACQUISITION SYSTEMS**
This course exclusively deals with terrain burden—primary or non-dynamic burden includes changes in land use terrain that demands land use/land cover change (LUCC) evaluation. The principal approach to this demand is usually to conduct land use classification(s) using any applicable algorithms. The Critical Infrastructure protection is one of the cornerstones of homeland security. While PDD-63 lists 8 sectors, the National Strategy for Protection of Critical Infrastructure and Key Assets lists 11 sectors: Water, Power & Energy, Information & Telecommunications, Chemical Industry, Transportation, Banking & Finance, Defense Industry, Postal & Shipping, Agriculture & Food, Public Health, and Emergency Services. Based on assigned readings of key government documents, independent reports and expert analyses, the student will gain a base of knowledge about the vast scope of effort and activities required to protect the nation's most essential assets.
- ST 556 3 hrs. **EMERGENCY MANAGEMENT**
This course examines historical and contemporary theories, principles, and practices of Emergency Management, particularly the all-hazards approach and the related processes of mitigation, preparedness, response and recovery. Using a case study approach, the course considers the evolution of Emergency Management and its practical application within government and private-sector institutions. The roles, responsibilities, and duties of Emergency Managers at various levels of government are discussed, as are the relationships between the agencies, organizations, and individuals involved.

ST	557	3 hrs.	<p>DEBRIS CONTROL IN EMERGENCY MANAGEMENT This course examines historical and contemporary theories, principles, and practices of Emergency Management, with regards to control of debris. This includes transportation of all-hazardous materials and the process of mitigation and recovery. Using a case study approach, this course research and reproduce some evolutions of debris control during emergency management. Emphasis will be on the practical aspects involving governments and private sector.</p>
ST	558	3 hrs.	<p>EXPLOSIVE IMPACT MODELING This course deals with hypervelocity impact engineering and introduces students to understand the theoretical, experimental and numerical analysis of hypervelocity impact due to natural and artificial explosive sources. The modeling deals with international signature of explosive impact and powder metallurgy analysis.</p>
ST	559	3 hrs.	<p>NATIONAL INTERESTS IN FORCE PLANNING This course provides students with the fundamentals of force planning, framework of national security; defense planning, U.S. defense strategy, emerging international threats, specific and non-specific threats in commerce, economy, and industry. Students gain global security awareness in this course through visible observations of regional threats and national interests.</p>
ST	650	3 hrs.	<p>TOPICS IN ENERGY & TRANSPORTATION NETWORKS Energy and environment are such important issues that the next generation cannot afford to be illiterate about. This course starts with a survey of energy and their impacts on the environment. It emphasizes the production and use of renewable energy. Selected topics will be determined by the polarity of energy (one-way or two-way) at the point of.</p>
ST	651	3 hrs.	<p>FACILITY DEFINITION</p>

RADIOLOGICAL HEALTH SCIENCE

Program Description

The Radiological Health Science concentration prepares graduates to address/solve applied health-physics problems in an industry, hospital, academia, research, or in any settings where radiation is used for beneficial purposes. The nuclear industry requires professionals who can demonstrate broad technical knowledge, professional judgment in radiation related issues; ability to work independently, and knowledge in different areas of nuclear related fields. The program prepares its graduates to be able to take up professional jobs in the nuclear related fields, with abilities to conduct advanced research, prepare them to continue doctoral level education. A total of 24 hours may be chosen from the restricted electives below.

Course Requirements

Core Courses (12 hours Thesis/Non-Thesis Plan)		Credits
ST 512	Mathematics for AS&T	3 hrs.
ST 514	Computation in AS&T	3 hrs.
ST 516	Project Management	3 hrs.
ST 510	Research Methods in AS&T	3 hrs.

Thesis and Project Option (6 hours)		Credits
ST 610	Thesis OR	6 hrs.
ST 5xx	Approved Elective	3 hrs.
ST 615	Project	3 hrs.
Restricted Electives (18 hours)		Credits
ST 571	Intro to Radiation Health Physics	3 hrs.
ST 572	Radiation Detection and Measurement	3 hrs.
ST 573	External Dosimetry	3 hrs.
ST 574	Radiation Regulations	3 hrs.
ST 575	Advanced Radiobiology	3 hrs.
ST 576	Internal Dosimetry	3 hrs.
ST 577	Radiochemistry	3 hrs.
TOTAL		36 hrs.

RADIOLOGICAL HEALTH SCIENCE COURSE DESCRIPTIONS

ST	570	3 hrs.	<p>APPLICATION OF NUCLEAR RADIATION IN SOCIETY</p> <p>This course starts with technology of nuclear energy, human experience with Peaceful use of nuclear radiation in many fields of science and technology including, medicine, industry, agriculture, safety instruments etc. The impact of nuclear radiation in industry has been estimated to be more than auto-industry economically.</p>
ST	571	3 hrs.	<p>INTRODUCTION TO RADIATION HEALTH PHYSICS</p> <p>This course primarily discusses various topics related to atomic structure, quantum mechanics interpretation of atom, origin of radiation, dose calculation for various sources and geometries (both internal and external), effect of radiation on human body, radiation detectors used in safety discipline, concepts of shielding.</p>
ST	572	3 hrs.	<p>RADIATION DETECTION AND MEASUREMENT</p> <p>Due to its nature radiation has to be detected and measured through instruments. This course gives theoretical and practical experience in setting up, troubleshooting, calibration, radiation measurement using G-M counters, proportional counters, scintillation counters (NaI detectors) using SCA & MCA, solid-state detectors (Germanium detectors) using MCA, Thermo Luminescence Dosimeter (TLD), Liquid Scintillation Counters associated with radiation detection and measurement at graduate level.</p>
ST	573	3 hrs.	<p>EXTERNAL DOSIMETRY</p> <p>To understand the fundamentals of external radiation dosimetry including computations for extended sources. To understand the properties, measurements and dosimetry related to radiation and principles of radiation shielding. Point-Kernel methods and performing calculations based on NCRP 49 documents.</p>

- ST 574 3 hrs. **RADIATION REGULATIONS**
Due to its nature radiation (hazardousness), radioactive materials are regulated. This course primarily deals with regulation of radioactive materials by various regulating authorities including NRC, DOE, EPA, States, and local governments. In addition, regulation of radioactive materials at various work places including but not limited to nuclear plants, hospitals, industries, universities, and research laboratories will be discussed.
- ST 575 3 hrs. **ADVANCED RADIOBIOLOGY**
This course provides an in-depth study of the biological effects of ionizing radiation on living cells/tissues. Emphasis is placed on analysis and interpretation of data from survival and dose response curves. Topics include cell biology, structure and functions of DNA and chromosomes, the cell cycle, cell/tissue sensitivity and response to radiation, tolerance doses, modification of cell/tissue response to radiation, acute and chronic effects of radiation on various organs and systems, radiation syndromes, somatic and genetic effects of radiation, risks to the embryo and fetus, federal radiation protection laws, and new radiation modalities and treatment techniques.
- ST 576 3 hrs. **INTERNAL DOSIMETRY**
Calculation of Internal Dose resulted from exposure of radioactive materials using various approved documents- ICRP2, ICRP 30, ICRP 60, ICRP 66, and MIRD Model. In addition, dose calculation using internal dosimetry related software like IMBA, LUDEP, RADTOOL are performed.
- ST 577 3 hrs. **RADIOCHEMISTRY**
This is a graduate level radiochemistry class that gives students a practical experience in handling radioisotopes (sealed and unsealed) measurements techniques, liquid scintillation counting, dating of radioactive materials, sample preparation for gamma spectroscopy, handling radioactive waste materials and other topics of importance.
- ST 578 3 hrs. **RADIOACTIVE MATERIAL HANDLING (CRADLE-TO-GRAVE CONCEPT)**
Due to its nature and the way that radiation and nuclear materials were introduced to society its proper handling received a lot of attention. This course follows the proper handling of radioactive materials from mining to different chemical processes, applications and usages, post-usage handling when they become wastes, as well as refused part during its part and the suggested proper ways of their storage, process and disposal.
- ST 579 3 hrs. **RADIO TRACERS IN INDUSTRY AND MEDICINE**
Radioactive materials have a wide variety application in various segments of industry and medicine. Having the capability of being traced while they are a part of living beings or a component in a system they can be traced to determine the location on those being and provide a means to study them. This application is a big part of nuclear medicine; it also can be used for therapeutic purposes. This course provides detail understanding and case demonstrations of radiotracers at advanced graduate level.

STATISTICS COURSE DESCRIPTIONS

ST	501	3 hrs.	<p>APPLIED STATISTICS I FOR AS&T A basic first course in probability and statistics with textbook, examples, and problems aimed toward the business, biological sciences, and economics, social and applied sciences. Frequency distributions, averages, measures of variation, probability; graphical display of data; parameter estimation and confidence intervals; hypothesis tests of mean and proportion; significance tests appropriate to binomial, multinomial, poisson, and normal sampling; simple regression and correlation; one-way analysis of variance and covariance; t-test; chi-square test. Pre-requisites: MA 377 or EG 377.</p>
ST	502	3 hrs.	<p>APPLIED STATISTICS II FOR AS&T Analysis and interpretation of biological data using two- or higher-way analyses of variance and covariance, multiple regression and correlation, simple comparative methods, and simple designs of experiment. Emphasis is on computer analysis of data. Pre-requisite: ST 501-Applied Statistics I.</p>
ST	503	3 hrs.	<p>APPLIED LINEAR STATISTICAL MODELS FOR AS&T Matrix-based regression and analysis of variance procedures at a mathematical level appropriate for a first-year graduate statistics major. Topics include simple linear regression, linear models in matrix form, multiple linear regression, model building and diagnostics, analysis of covariance, multiple comparison methods, contrasts, multifactor studies, blocking, sub-sampling, and split plot designs. Pre-requisites: ST501-Applied Statistics I and/or ST502-Applied Statistics II.</p>
ST	504	3 hrs.	<p>DESIGN OF EXPERIMENTS FOR AS&T Planning experiments so as to minimize error variance and avoid bias including completely randomized design; randomized complete block design; Latin squares; split-plot designs; sub-sampling; switch-back or reversal designs; incomplete block designs; split-plot design; repeated measure design; crossover design; bioequivalence; efficiency. Requisites: ST501-Applied Statistics.</p>

IMAGE PROCESSING AND PATTERN RECOGNITION COURSE DESCRIPTIONS

ST	610	3 hrs.	<p>ADVANCED RESEARCH TOPICS This course covers the topics that reflect the most recent research and development in the Applied Science field. The course is offered in a form of graduate research seminar that closely combines the teaching efforts and the research findings. The lecturers may be invited from outside the campus who are in the frontier of industry or academia. The topic usually reflects new developments in the Applied Science Master's Program field. Offering is based on student and faculty interests.</p>
ST	620	3 hrs.	<p>DIGITAL SIGNAL PROCESSING Fundamentals of discrete-time signal processing are presented. The course emphasizes on the basic concepts of discrete linear shift-invariant systems, including sampling, aliasing, quantization, and the reconstruction of analog signals. Extensive coverage of digital filter design, the Z-transform, discrete Fourier transform, and fast Fourier transform is given. It also covers filter</p>

structures, round-off noise, finite length register effects, and limit cycles in discrete-time digital systems.

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| ST | 622 | 3 hrs. | ADVANCED IMAGE PROCESSING
The course covers the concepts and techniques of modern digital image processing. The topics include image acquisition and display, properties of the human visual system, sampling and quantization, point operations, color representations, nonlinear filtering, contrast and color enhancement, noise reduction, linear image filtering and correlation, image registration, image segmentation, transforms and sub-band decompositions, and dithering and image restoration, object tracking, feature extraction and image recognition. |
| ST | 624 | 3 hrs. | PATTERN RECOGNITION
This course will introduce the fundamentals of pattern recognition with examples from several applications areas. It includes topics in Bayes rule, parameter estimation, statistical decision making, measures of classification performance and measures of classification risk, classifier combination, feature selection, non-Parametric decision making, minimum squared error discriminate functions, clustering techniques, artificial neural networks and so on. |
| ST | 626 | 3 hrs. | PRINCIPLES OF IMAGING
This course aims to provide the students with a basic understanding of the scientific principles associated with image capture and formation. The topics includes optical imaging, ultrasound imaging, X-ray imaging, magnetic resonance imaging, infrared imaging, microwave imaging, stereo imaging and 3-D imaging, image reconstruction, and so on. |
| ST | 628 | 3 hrs. | MACHINE LEARNING
This course will present an introduction to algorithms for machine learning and data mining. It covers topics in supervised learning (generative/discriminative learning, parametric/non-parametric learning, neural networks, support vector machines), unsupervised learning (clustering, dimensionality reduction, kernel methods), learning theory (bias/variance tradeoffs, VC theory, large margins), and reinforcement learning. |

BIOTECHNOLOGY

Keith A. McGee, Ph.D., Program Director
Math and Science Building, 3rd Floor
1000 ASU Drive #870
Phone: 601-877-6198 FAX: 601-877-2328

Degree Offered

M. S. in Biotechnology

Required Admission Test

GRE General Test

Graduate Faculty

Sandra Barnes, Interim Chairperson, Department of Chemistry and Physics and Associate Professor of Chemistry, B.S., Alcorn State University; Ph.D., University of Kansas

Keith McGee, Director of Biotechnology and Associate Professor of Biology, B.S., Mississippi Valley State University; Ph.D., University of Southern Mississippi

Babu Patlolla, Interim Dean, School of Arts and Sciences, Professor of Biology, B.S., Osmania University; M.S., Osmania University; M.S., Jackson State University; Ph.D., Jackson State University

Robert Sizemore, Professor of Biology, B.S., University of Kentucky; M.S., University of Kentucky; Ph.D., University of Louisville

MASTER OF SCIENCE IN BIOTECHNOLOGY

Program Description

The primary purpose of the master's degree program in biotechnology is to train students in cellular and molecular biology and genetic engineering. The students will be provided with a firm foundation in the principles of genetics and molecular biology of both prokaryotic and eukaryotic organisms. Each student will then specialize in an area appropriate to his or her interest and career goals. Graduates will be prepared to assume government, university, and industry positions or continue their training towards advanced degrees in graduate or professional schools.

The successful student upon completing a Master of Science in Biotechnology, will in having broadened his other specific knowledge, as related to biotechnology and related fields of study:

1. Be able to state and clearly articulate the research goals, objectives, as well as, experimental design goals, and potential experimental outcomes of a proposed thesis level research project.
2. Organize, interpret and present the results generated by a thesis level research project, in a manner consistent with the guidelines set forth by ASU's Office of Graduate Studies.
3. Be able to prepare and submit an abstract of approved thesis level research work at a national, regional, or state research conference, and be able to make a quality oral or poster presentation at a designated conference.
4. Be able to obtain employment in related biotechnology fields, or admission to a doctoral degree program at a university, or enhance the likelihood of entering a professional program leading to a position at a teaching institution such as secondary schools, junior colleges, or occupational/technical/vocational schools.

Course Requirements

Core Courses (24 hours)		Credits
CH 580	Advanced Biochemistry	3 hrs.
BT 500	Research Seminar	1 hr.
BT 505	Current Topics in Biotechnology	1 hr.
BT 540	Molecular Genetics	3 hrs.
BT 565	Advanced Cell and Molecular Biology	3 hrs.
BT 570A	Techniques in Biotechnology	3 hrs.
BT 600	Internship in Biotechnology	3 hrs.
BT 650	Thesis Research	5 hrs.
PS 595	Experimental Design and Method	3 hrs.
Elective Courses (9 hours)		Credits
BI 503	Mycology	3 hrs.
BI 523	Advanced Biostatistics	3 hrs.
BI 525	Advanced Immunology	3 hrs.
BI 526	Advanced Pharmacology	3 hrs.
BI 581	Advanced Toxicology	3 hrs.
BT 526	Economic Aspects of Biotechnology	3 hrs.
BT 544	Advanced Plant Breeding	3 hrs.
BT 545	Laboratory Methods in Tissue/Cell Culture	3 hrs.
BT 546	Principles of Population Genetics	3 hrs.
BT 551	Genomics	3 hrs.
BT 552	Proteomics	3 hrs.
BT 570B	Techniques in Biotechnology	3 hrs.
BT 590	Bio-informatics	3 hrs.
TOTAL		33 hrs.

Biotechnology Course Descriptions (BT)

BT	500	3 hrs.	<p>RESEARCH SEMINAR</p> <p>This course will focus on effective communication of ideas and research findings in biotechnology. Students will be required to provide both oral and written evaluations of research publications and proposals. The first part of the semester will focus on a dissection, evaluation, and discussion of recent biotechnology-related research publications. Students will discuss the aspects of successful oral presentations, including the effective use of visual aids. The middle of the semester will be spent developing a research proposal, focusing on the separate components of a proposal. The end of the semester will involve student presentations of a research proposal that they have developed.</p>
BT	505	1 hr.	<p>CURRENT TOPICS IN BIOTECHNOLOGY</p> <p>An introduction to biotechnology: historical perspectives, current applications, and future directions. This course will consist of informal lectures and interactive discussions led by biotechnology faculty and visiting professionals. The course will orient students to the educational/career opportunities in biotechnology and assist them in developing a focus for their individualized degree programs. The</p>

course is also designed to acquaint students with ethical issues associated with agricultural biotechnology. Students will take considerable advantage of resources available on the internet. Students will acquire information that would enable them to participate in national debates about the ethics of biotechnology. Lecture, two hours per week.

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| BT | 526 | 3 hrs. | <p>ECONOMIC ASPECTS OF BIOTECHNOLOGY</p> <p>This course surveys microeconomics, macroeconomics, agribusiness and finance topics relevant to conceptual analyses of problems and decision-making situations in the agricultural and non-agricultural biotechnology industries. Credit: Lectures, three hours per week.</p> |
| BT | 540 | 3 hrs. | <p>MOLECULAR GENETICS</p> <p>This course introduces students to methods of analyzing DNA sequences and the use of sequence information available in international databases. Topics include assembly of raw data into a contiguous sequence, finding open reading frames, translating nucleotide sequences into amino acid sequences, determining protein and DNA characteristics, identifying genes by database searches, determining which database searching method to use, motif searches to identify amino acid signature sequences, searching for and downloading sequences from the GenBank database, importing and interconversion of sequences, aligning sequences, calculating and drawing phylogenetic trees, and genome analysis.</p> |
| BT | 544 | 3 hrs. | <p>ADVANCED PLANT BREEDING</p> <p>Principles of plant breeding will be emphasized, along with its application to the practical breeding of agronomic, horticultural, and forest plants. Students will be trained in the decision-making process that plant breeders encounter. Effective strategies for cultivar development will be discussed. Students will be able to understand alternative methods used in plant breeding, evaluate the genetic improvement that can be realized from each method, and understand the advantages and disadvantages associated with each plant breeding method. The role of cellular and molecular biology in genetic improvement of plant species will be discussed. Students will understand the process of selection, testing, release, and distribution of new cultivars. Pre-requisites: genetics and consent of the instructor.</p> |
| BT | 545 | 3 hrs. | <p>LABORATORY METHODS IN TISSUE/CELL CULTURE</p> <p>Students will learn several techniques necessary for the culture of animal tissue and cells in the laboratory. This will include protocols for sterile technique and laboratory safety and useful assays such as cell proliferation, ELISA, RNA isolation and PCR. Students will not only learn the methodology and theory behind various protocols but also develop skills via hands-on experience.</p> |
| BT | 546 | 3 hrs. | <p>PRINCIPLES OF POPULATION GENETICS</p> <p>This course, an introduction to the field of population genetics, is concerned with the genetic structure of populations and how it changes through time. This is a general introductory course on empirical and theoretical population genetics. The course will cover primary forces and processes involved in shaping genetic variation in natural populations (mutation, drift, selection, migration, recombination, mating patterns, population size, and population subdivision), methods of measuring genetic variation in nature, experimental tests of important ideas in population genetics, transposable elements, the evolution of multigene families, and molecular clocks.</p> |

BT	551	3 hrs.	GENOMICS This course is designed to give students a solid understanding of plant and animal gene and protein research and the tools required for such research. The first part of the course will involve analysis of genes and genomes with an emphasis on function, transmission, mutation and evolution in plants. Topics include: genetic, molecular, and quantitative and bioinformatics approaches. Pre-requisites include Advanced Biochemistry, (CH 580) and Molecular Genetics (BT 540).
BT	552	3 hrs.	PROTEOMICS This course involves an in-depth study of research methods and techniques used to study proteomes. Research utilizing methods such as ELISA, HPLC, Mass Spectrometry, and Electrophoresis to study proteins will be discussed.
BT	565	3 hrs.	ADVANCED CELL AND MOLECULAR BIOLOGY This course is an integrated cell and molecular biology course. It is designed to thoroughly introduce the student to the mechanisms of DNA replication, recombination, repair, transcription, protein synthesis, gene regulation and signal transduction. At the conclusion of this course, the student will be able to describe, in detail, the mechanisms of DNA metabolism, protein synthesis, gene regulation, and signal transduction. The student will also be able to describe and indicate the basis for current diagnostic tests that incorporate modern cell and molecular biology techniques.
BT	570A	3 hrs.	TECHNIQUES IN BIOTECHNOLOGY This course is designed to provide students with hands on experience with common and advanced tools used in molecular biology and biotechnology. Students will become familiar with each piece of equipment and learn how to choose the correct device for a specific type of procedure. These approaches will be coupled with short-term workshops and hands on experiences. The second half of the course will cover research involving techniques such as protein extraction, protein sequencing, electrophoresis, chromatography, mass spectrometry, X-ray crystallography, and enzyme-linked immunosorbent assay (ELISA), and spectrophotometry and high performance liquid chromatography.
BT	570B	3 hrs.	TECHNIQUES IN BIOTECHNOLOGY The course will cover research involving techniques such as protein extraction, protein sequencing, electrophoresis, chromatography, mass spectrometry, X-ray crystallography, and enzyme-linked immunosorbent assay (ELISA), and spectrophotometry and high performance liquid chromatography.
BT	590	3 hrs.	BIO-INFORMATICS This course is designed to provide an introduction to the types of information analysis obtained from DNA sequencing projects, ranging from the sequences of individual genes to those of entire genomes, as well as, the massive data obtained microarrays. There will be two core themes in the class: the analytical techniques that can be used to evaluate data, and examples of the biological significance of such analyses.
BT	650	2 hrs.	THESIS RESEARCH This course is designed to synthesize the knowledge and skills developed in previous research courses and apply them in the preparation of the Master's thesis. Candidates to the Master's Degree in Biotechnology will learn about all aspects of the process of developing and carrying out the production of an acceptable manuscript. Students will gain an understanding of standards and

expectations that must be met in order to successfully complete the thesis. Throughout the course, students are required to work closely with their major advisor/thesis director and committee, as appropriate.

Biotechnology Curriculum Courses in Other Disciplines

Biology (BI)

BI	515	3 hrs.	<p>COMPUTER APPLICATIONS IN BIOLOGICAL SCIENCES This course provides introduction to computer applications in the biological sciences. The three major applications involved in this course are data interpretation, presentation in appropriate formats, charts, graphs, tables, database usage, and statistical analysis.</p>
BI	523	3 hrs.	<p>ADVANCED BIOSTATISTICS Methods of collection, tabulation, analysis, and application of biological data specifically related to various problem solving activities in biology using descriptive statistics probability theory and statistical inference.</p>
BI	526	3 hrs.	<p>ADVANCED PHARMACOLOGY This course is designed to study various classes of drugs relative to their specific mechanisms of action and clinical application.</p>
BI	546	3 hrs.	<p>ADVANCED HISTOLOGY An advanced study of the microscopic and chemical structures of organs, tissues, and their cellular constituents.</p>
BI	556	3 hrs.	<p>MICROBIAL GENETICS This course provides a detailed description of the processes of heredity in bacteria including a discussion of gene structure and evolution, gene expression and its control, the exchange of genetic material in the microbial world and genetic engineering and its applications. Also included are studies on the genetics of bacterial viruses and other infectious agents of bacteria and fungi.</p>
BI	581	3 hrs.	<p>ADVANCED TOXIOLOGY This course is designed to fill the need for a comprehensive source of information concerning toxicology. It presents a definite description of basic concepts and methods employed in environmental toxicology studies as well as examples of typical data and its interpretation. Specific topics covered in this course include: toxicity of generic types of chemicals (such as pesticides and metals) to organisms; the distribution and fate of chemicals in the environment.</p>

Note: (*) These supporting courses are offered in the Department of Biology as shown in the university catalog.

Chemistry (CH)

CH 580 3 hrs. ADVANCED BIOCHEMISTRY
This course stresses the techniques involved in purification and modification of enzymes and polynucleotides, expression of genetic information, and recombinant DNA technology.

Plant Science (PS)

PS 595 3 hrs. EXPERIMENTAL DESIGN AND METHOD
Fundamental principles of experimental designs especially in relation to computation and analyses of biological research data.

**MASTER OF SCIENCE IN WORKFORCE EDUCATION LEADERSHIP
(JOINT ASU/MSU PROGRAM)**

Dr. David K. Addae (WEL Program Director – ASU)

Degree

Master of Science in Workforce Education Leadership

Requirement for Admission

GRE General Test

GRADUATE FACULTY

Kwabena Agyepong, Associate Professor of Advanced Technologies, B.S., University of Science and Technology (Kumasi, Ghana); M.B.A., University of Cincinnati; Ph.D., University of Cincinnati

David Addae, Professor of Advanced Technologies, B.S., Central New England College of Technologies; M.S., North Carolina A&T State University; Ed.D., West Virginia University

Steve Adzanu, Associate Professor of Advanced Technologies, B.S., University of Science and Technology (Kumasi, Ghana); M.S., University of Saskatchewan-Saskatoon, Canada; Ph.D., University of Saskatchewan-Saskatoon, Canada

Program Description

This Master's degree program, offered jointly through Alcorn State University (ASU) and Mississippi State University (MSU), will prepare graduates to become facilitators of workforce, industry, and community change that will meet the needs of an increasingly diverse clientele. The main objective of this program is to train students to be employed in workforce education leadership positions at rural community colleges. Courses offered only at ASU may be taken by distance education by MSU students and vice versa. That is, students at either university are encouraged to take some of their courses at the other institution, usually via distance education techniques. (Each institution's name will appear on each diploma.) The program is designed to prepare students to become effective leaders in a variety of rural educational settings, business and industry.

Students will:

- master the necessary concepts to think critically about how organizations function,
- learn a range of methods to diagnose the needs of particular individuals and programs they serve,
- develop the leadership skills and technological competencies required to propose and effectuate interventions to help organizations and communities become more effective, and
- acquire the research and management skills needed to assess the usefulness of their interventions in order to modify and improve them accordingly.

Program of Study Guidelines include:

- 1/2 of the courses must be comparable to the course numbers below
- Up to 6 hours may be transferred or substituted from accredited institution or program
- 6 years' maximum to complete program of study
- 36 hours minimum beyond baccalaureate degree

Application and Registration Process

The admissions process for this program has been designed so that the student will complete only one admissions application packet. Acceptance in this program will require that student complete an admissions application through the Alcorn State University Department of Advanced Technologies or Mississippi State University. Therefore, it is very important that a primary institution is marked in Section II of the application. If ASU is marked as the primary institution, Alcorn State admissions requirements must be met and the admissions decision will be made by ASU. Likewise, if MSU is marked as the primary institution, Mississippi State admissions requirements must be met and the admissions decision will be made by MSU. Therefore, all WEL applicants must first be admitted to the Graduate School at their chosen primary institution and clear all holds prior to registration. Please contact your specific department for academic advising. Any exceptions in course requirements must be approved through your academic department and WEL Program advisor. The Operations Unit at Mississippi State University will collect the completed packets from the ASU Graduate School via the ASU Admissions/Contact person and forward a duplicate copy to the ASU WEL Program contact person. The contact persons at each school will complete the registration process for each student.

MSU Contact for WEL Application:

Amy Wallace
MSU Division of Academic Outreach &
Continuing Education
P.O. Box 5247
Mississippi State University, MS 39762
Fax: 662-325-3473
E-Mail: AWallace@aoce.msstate.edu

ASU Admissions/Contact Person:

Lisa Augustine
Department of Advanced Technologies
1000 Alcorn Drive #360
Alcorn State, MS 39096-7500
Phone: 601-877-6494
Fax: 601-877-3941

Download WEL Registration Form: www.distance.msstate.edu/PDF/MSURegFrm05.pdf

** Internships are offered to enrich your educational experience. The internship requirement may be waived for those students who can document experience comparable to the planned internship.

Course Requirements

Industrial Technology and Workforce Development (12 hours)

Required Courses (12 hours)

		Credits
IE 500	Research in Industrial & Occupational Education	3 hrs.
IE 579	Federal & State Job Training Programs	3 hrs.
IE 590	Vocational Administration Certification Course or	3 hrs.
TKT 8263	Philosophy and Admin of Vocational Education (MSU Option)	
IE 586	Qualitative Research Design or	3 hrs.
TKT 8233	Career Planning & Decision Making (WEB-MSU Option)	3 hrs.
TKT 6733	Managing Multimedia Learning Environ (WEB-MSU Option)	3 hrs.
TKT 8763	Seminar in Planning Instructional Tech (WEB-MSU Option)	3 hrs.
TKT 8723	Instructional Design for Industry (MSU Option)	3 hrs.

Approved Electives (24 hours) to be chosen by student under the supervision and approval of his or her Advisor. Credits

IE 519	Industrial Management & Organizational Behavior	3 hrs.
IE 552	School to Work Initiatives	3 hrs.
IE 578	Welfare to Work Programs	3 hrs.
IE 548	Internship in Workforce Development or	3 hrs.

TKT 8200	Internship in Vocational Education (MSU Option)	
TI 552	Instructional Planning in Industrial & Vocational Programs	3 hrs.
TI 501	History & Philosophy of Industrial Education	3 hrs.
IE 508	Manufacturing Planning and Control	3 hrs.
TI 550	Delivery of Instruction in Industrial & Vocational Education	3 hrs.
AE 508	Rural Economic & Enterprise Development	3 hrs.
IE 526	Principles & Objectives Evaluation of Vocational Education Students	3 hrs.
	TOTAL	36 hrs.

Industrial Education Course Descriptions (IE)

IE	500	3 hrs.	<p>RESEARCH IN INDUSTRIAL & OCCUPATIONAL EDUCATION</p> <p>This course will introduce participants to the characteristics and various approaches to designing and conducting qualitative research in industrial and occupational education and market research analysis (feasibility study). Students will gain hands-on experience with qualitative methods and analysis techniques while carrying out a research project related to their field of interest.</p>
IE	508	3 hrs.	<p>MANUFACTURING PLANNING AND CONTROL</p> <p>The purpose of IE 508 is to provide students with an opportunity to develop an understanding of production organizations and production product planning. Taking an idea and crossing the gap to market production involves careful planning, production fundamentals, and support of reliable vendors. This three (3) credit unit course bridges the gap and provides students with the fundamentals and building blocks of product concept into market production. The course prepares students for leadership roles in entrepreneurial as well as large production-oriented companies. This course deals with theories and concepts that are essential when considering material flow, management problems, decision making techniques and supporting data base in manufacturing industry. Emphasis is placed on information systems and the use of contemporary manufacturing resources and materials requirement planning software and applications.</p>
IE	519	3 hrs.	<p>INDUSTRIAL MANAGEMENT & ORGANIZATIONAL BEHAVIOR</p> <p>Industrial Management for workforce education. Topics include Employee Selection, Appraisal, Training, Development, Leadership Motivation, Job Satisfaction and Job Involvement, Working Conditions, and Employee Safety in an industrial environment.</p>
IE	526	3 hrs.	<p>PRINCIPLES & OBJECTIVES EVALUATION OF VOCATIONAL EDUCATION STUDENTS</p> <p>Scope, nature, tools, language, and interpretation of elementary statistics. Descriptive statistics; graphical and numerical representation of information; measures of location, dispersion, position, and dependence; exploratory data analysis. Elementary probability theory, discrete and continuous probability models. Inferential statistics, point and interval estimation, tests of statistical hypotheses. Inferences involving one or two populations, ANOVA, regression analysis, and chi-square tests; use of statistical computer packages ®.</p>

- IE 548 3 hrs. **INTERNSHIP IN WORKFORCE DEVELOPMENT**
The internship program in workforce development allows the student to learn about the various types of internship program and how to plan and set up and evaluate internship programs at the various levels. Students will have the opportunity to listen to experienced professionals on how to develop and run an internship program and have first-hand experience in setting symbolic intern programs in a particular field of interest.
- IE 552 3 hrs. **SCHOOL-TO- WORK INITIATIVES**
This online course is designed to reveal the systematic approach of the transition from the academic environment to the workforce. This course will also focus on the planning, design, implementation, and impact of school-to-work transition reform initiatives. Students will be able to identify the design and reliability of commendable programs, and identify program experiences and impacts linked to schools with the business community as it seeks to improve the transition from school to work. *This course will be delivered over the Internet for graduate students enrolled in the Workforce Education Leadership Program.*
- IE 578 3 hrs. **WELFARE TO WORK PROGRAMS**
This course is designed to assist graduates to understand welfare to work programs and how to assist Welfare recipients to obtain or prepare for regular employment. Graduates will also have group projects on Welfare to Work leadership activities and appraisal of Welfare-to-Work participants' education and employment backgrounds.
- IE 579 3 hrs. **FEDERAL & STATE JOB TRAINING PROGRAMS**
This online course is designed to coordinate with federal and state guidelines that are necessary to contingency planning and operations of an association with Agreement States, local officials, other Federal agencies and American governments. Ultimately, this course will examine how real people in real businesses struggle every day with making training "right" for the people who work in those businesses. *This course will be delivered over the Internet for graduate students enrolled in the Workforce Education Leadership (WEL) Program.*
- IE 586 3 hrs. **QUALITATIVE RESEARCH DESIGN**
This course provides an overview of qualitative research methods. Students consider mainstream qualitative research design techniques including case study, grounded theory, ethnography, and phenomenology. Data collection methods are also discussed along with qualitative analysis and reporting techniques. Students are prepared to identify, interpret, evaluate and present qualitative data and to design their own qualitative research study.
- IE 590 3 hrs. **VOCATIONAL ADMINISTRATION CERTIFICATION COURSE**
This course is part of a professional development sequence of courses required for certification in trades and industrial teachers in Mississippi. It is consistent with the new vision for teacher education. This course will be based on validated learners' outcome and will include non-traditional methods of evaluation, such as portfolio assessment. Therefore, all activities will be linked to attainment of specific outcomes and performance standards as demonstrated by each student. This course will also enhance the professional research skills of the students by connecting the knowledge of general studies with the knowledge of the professional area, in this case, administration of vocational technical institutions.

The course enables students to conduct in-depth research with the professional area of service and contributes to problem solving endeavors in vocational/technical settings.

Trades and Industrial Education Course Descriptions (TI)

TI	501	3 hrs.	<p>HISTORY & PHILOSOPHY OF INDUSTRIAL EDUCATION</p> <p>This course ensures that the student knows and can briefly discuss American democratic government to guide the student in establishing social expectations from government, industry, and traditional education. It further provides the students the knowledge to go into the workforce with basic understanding of sociopolitical elements in education. Among these elements are educational approaches in solving social problems, including technological and traditional education, and how these elements define social classes and industrial aptitude of different geopolitical regions. The objective of the course is for students to learn how to create and/or fit a social responsibility distribution and use it to improve social, industrial, and educational workforce systems.</p>
TI	550	3 hrs.	<p>DELIVERY OF INSTRUCTION IN INDUSTRIAL & VOCATIONAL PROGRAMS</p> <p>This course will introduce participants to Delivery Instructions in Industrial and Vocational Programs. Learning the instructional delivery methods provides an invaluable foundation for anyone entering today's workforce development world. Topics covered in this course include the role of instructor, learning theory, learner assessment, instructional methodology, and instructional technology and learning environments. To summarize- <i>"this course will teach how to teach."</i></p>
TI	552	3 hrs.	<p>INSTRUCTIONAL PLANNING IN INDUSTRIAL & VOCATIONAL PROGRAMS</p> <p>This course is required for the Masters of Science Degree in Workforce Educational Leadership Career and Technical Education. The course addresses key knowledge, competencies, and skills required by careers, vocational and technical instructors/specialist or private trainers in developing and studying the problems and practices underlying curriculum construction in Trade and Industrial Education. This course will focus on, but not limited to, the study of problems and practices underlying curriculum construction in Instructional Planning in Trade/Industrial and Vocational programs.</p>

SCHOOL OF EDUCATION AND PSYCHOLOGY



"I am what I am today because of the choices I made yesterday."

SCHOOL OF EDUCATION AND PSYCHOLOGY

Robert Carr, Ph.D., Dean
Walter Washington Administration Building, Suite 409
601-877- 6141 FAX 601-877-6319

Degree

Master of Science in Education: Early Childhood Education

Master of Science in Education: Elementary Education

Master of Science in Education: Reading

Master of Arts in Teaching: Elementary Education

Master of Arts in Teaching: Secondary Education

Master of Science in Secondary Education: Athletic Adm. and Coaching (Teaching)

Master of Science in Secondary Education: Athletic Adm. and Coaching (Non-Teaching)

Secondary Education Master's: Clinical Mental Health Counseling

Secondary Education Master's: Physical Education

Secondary Education Master's: School Counseling

Secondary Education Master's: Special Education

Specialist in Elementary Education

Required Admission Test

Standard Educator License

Standard Educator License

Standard Educator License

CASE & Praxis II

CASE & Praxis II

Standard Educator License

Standard Educator License

GRE General Test or CASE

Standard Educator License

GRE General Test or CASE

Standard Educator License

Standard Educator License-AA

DEPARTMENT OF EDUCATION AND PSYCHOLOGY

Helen Wyatt, Ph.D., Department Chair
 Walter Washington Administration Building, 2nd Floor
 1000 ASU Drive #216
 Phone: (601) 877-6200 FAX: 601 877-3867

GRADUATE FACULTY

Malinda Butler, Assistant Dean, Department of Education & Psychology and Associate Professor of Education, B.S., Alcorn State University; M.S., University of Mississippi; Ph.D., Mississippi State University

Robert Carr, Dean, School of Education and Psychology and Associate Professor of Education, B.S., Tougaloo College; M.S., Oklahoma State University; M.S., Walden University; Ed.D., Oklahoma State University

LaShundia Carson, Director, Master of Arts in Teaching Program and Associate Professor of Education, B.S., Alcorn State University; M.S., Jackson State University; Ed.D., Jackson State University

Somonica Lynn Etheridge, Visiting Assistant Professor of Counseling, B.S., The University of Mississippi; M.S., Mississippi College; J.D., The University of Mississippi Law School; Ph.D., The University of Mississippi

Felicia McGowan, Assistant Professor of Education, B.S., Alcorn State University; M.S., Alcorn State University; Ed.D., Jackson State University

April Owens Miley, Assistant Professor of Psychology, B.S., Alcorn State University; M.S., Jackson State University; M.A., California School of Professional Psychology; Psy.D., California School of Professional Psychology

Gerald Peoples, Professor of School Counseling, B.S., Grambling State University; M.S., Grambling State University; Ph.D., Kansas State University

Tabitha Smith, Assistant Professor of Education, A.S., Coahoma Community College; B.S., Alcorn State University; M.S., Alcorn State University; Ed.D., Nova Southeastern University

LaShawn Thompson, Assistant Professor of Education, B.S., University of Southern Mississippi; M.A., University of Southern Mississippi; Ph.D., University of Southern Mississippi

Dylinda Wilson-Younger, Associate Professor of Education, B.S., Alcorn State University; M.S., Alcorn State University; Ed.S., Alcorn State University; Ph.D., Jackson State University

Helen Wyatt, Associate Professor of Education, B.S., Alcorn State University; M.S., Alcorn State University; Ed.D., Nova Southeastern University

MASTER OF SCIENCE IN EDUCATION DEGREE IN ELEMENTARY EDUCATION

Program Description

The Master's degree at Alcorn State University is designed to meet all criteria set forth by the State Department of Education. This degree consists of 33 hours of course requirements and leads to the AA licensure. The department offers endorsements in the following areas: Early Childhood Education, Elementary Education and Reading. The Educational programs are structured to utilize the educational experiences of the students in the program. Degrees are designed to allow students to explore issues, design curriculum and learn new strategies and techniques that will enable them to become more effective educators, through the application of theory and new research to their educational practice.

Upon completion of the courses, the student will be able to:

- Apply the central concepts, tools of inquiry, structures, contemporary theories, and paradigms in education that develop a classroom climate to enhance the social, emotional, physical and psychological aspects of students;
- Create and deliver lesson segments that reflect theory and practice;
- Demonstrate effective interpersonal communication skills of speaking, listening, reading, and writing when interacting with pupils, parents, teachers, and other school personnel;
- Design performance-based assessments and implement assessment, instruction, evaluation, and intervention plans;
- Use media and technology as tools for professional development and to promote student learning;
- Model professionalism and high ethical standards in the classroom, and develop appropriate strategies for self-evaluation as a means of assessing one's own professionalism and teaching effectiveness.

Program Admission Requirements:

All students desiring to enter the Master of Science in Education Program in Elementary Education at Alcorn State University should first seek admission to Graduate School. Official transcripts and documentation of a Standard Mississippi teacher's license in a teaching area should be forwarded with the admission application. The Early Childhood option is only applicable to educators holding certification in K-3 or K-6 endorsement areas.

*Note: If a person is admitted with a secondary teacher's license, they will be endorsed in 4-8 only. If the Mississippi State Department of Education changes the licensure structure, the School of Education and Psychology must adhere to the changes. This program is not intended for special school personnel that have an endorsement in Guidance Education without a teaching endorsement.

ENDORSEMENT AREA: EARLY CHILDHOOD EDUCATION

Course Requirements

Core Education Courses (12 hours)	Credits
ED 512 Foundations of American Education.	3 hrs.
ED 514 Methods of Educational Research	3 hrs.
PH 513 Advanced Educational Psychology	3 hrs.
ED 533 Curriculum (Methods) Development	3 hrs.
Field of Endorsement (15 hours)	Credits
ED 538 Reading and Language Arts Experiences in ECE	3 hrs.
ED 541 Behavior Factors and Experiences in ECE	3 hrs.
ED 539 Mathematics Concepts and Experiences in ECE	3 hrs.
ED 543 Theory and Historical Development in ECE	3 hrs.
ED 545 Seminar in ECE	3 hrs.
Electives (6 hours)	Credits
ED 535 Models of Teaching in ECE	3 hrs.
ED 536 Assessing the Young Child	3 hrs.
ED 546 Director of Early Learning Centers	3 hrs.
ED 548 Child Welfare	3 hrs.
ED 549 Parenting in a Pluralistic Society	3 hrs.
ED 550 Thesis in ECE	3 hrs.
 ED 542 Practicum in ECE	 3 hrs.
TOTAL	33 hrs.

ENDORSEMENT AREA: ELEMENTARY EDUCATION

Program Description

The Elementary Education Program is offered on an accelerated level as well as the traditional 16 weeks' class completion schedule. The accelerated program offers classes online on an eight weeks' rotation. Students selecting the accelerated program must complete the courses in the sequence of availability.

Course Requirements

Course Requirements	Credits
Core Education Courses (12 hours)	
ED 512 Foundations of American Education	3 hrs.
ED 514 Methods of Educational Research	3 hrs.

PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Field of Endorsement (15 hours)		Credits
ED 525	Recent Methods and Materials for Teaching Elementary Reading	3 hrs.
ED 524	Problems of Teaching Arithmetic	3 hrs.
ED 526	Prob. and Trends in Elementary School Science	3 hrs.
ED 516	Current Trends in Elementary Social Studies Instruction	3 hrs.
ED 595	Seminar in Elementary Education	3 hrs.
Electives (6 hours)		Credits
ED 510	Creative and Mental Growth	3 hrs.
EA 577	Systematic Teacher Evaluation	3 hrs.
ED 527	Evaluation & Measurement in Schools	3 hrs.
ED 575	Metrics for Elementary Teachers	3 hrs.
ED 576	Art for Elementary Education	3 hrs.
PH 514	Theories of Learning and Personality Development	3 hrs.
ED 530	Thesis	6 hrs.
TOTAL		33 hrs.

ENDORSEMENT AREA: READING

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundations of American Education.	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Field of Endorsement (15 hours)		Credits
ED 507	Diagnostic Procedures in Reading	3 hrs.
ED 519	Basic Skills in Reading	3 hrs.
ED 501	Research in Reading	3 hrs.
ED 525	Recent Methods/Materials Elem. Reading	3 hrs.
ED 598	Recent Methods/Materials Secondary. Reading	3 hrs.
PH 588	Psychology of Reading	3 hrs.
Electives (6 hours)		Credits
ED 582	Issues, Trends & Innovations in Reading	3 hrs.
ED 503	Clinical Procedures in Reading	3 hrs.
ED 538	Reading & Lang. Arts Exp. in ECE	3 hrs.
ED 504	Seminar in Reading	3 hrs.
ED 529	Supervision of the School Reading Program	3 hrs.
TOTAL		33 hrs.

Education Course Descriptions (ED)

ED	501	3 hrs.	<p>RESEARCH IN READING This course focuses on research in the area of reading and how this research has and continues to make contributions to the overall instructional process in the area of reading.</p>
ED	503	3 hrs.	<p>CLINICAL PROCEDURES IN READING Identification, diagnosis, and remediation of reading difficulties. Pre-requisite: ED 317, teaching experience, and consent of instructor.</p>
ED	504	3 hrs.	<p>SEMINAR IN READING Emphasis on current innovations and problems; special attention to research in the field.</p>
ED	507	3 hrs.	<p>DIAGNOSTIC PROCEDURES IN READING Tests, inventories and clinical procedures in appraising reading difficulties.</p>
ED	510	3 hrs.	<p>CREATIVE AND MENTAL GROWTH Research in the development of habits of creative thinking and its relationship to mental growth, involving art, music, drama, creative writing, and other behavior patterns.</p>
ED	512	3 hrs.	<p>FOUNDATIONS OF EDUCATION A study of the sociological, historical, and philosophical background of education in America.</p>
ED	514	3 hrs.	<p>METHODS OF EDUCATION RESEARCH Study of the several approaches to the formulation of research problems, data analysis and hypothesis testing; appraisal and evaluation of published research; techniques of surveying research literature; preparation of short research papers. Development of research proposal is a course requirement.</p>
ED	515	3 hrs.	<p>MODERN METHODS OF TEACHING A methods course taught by faculty from the various areas of endorsement in secondary education.</p>
ED	516	3 hrs.	<p>CURRENT TRENDS IN ELEMENTARY SOCIAL STUDIES INSTRUCTION Considers ways in which the materials from the social sciences can be most effectively integrated in the social studies programs of junior and senior high schools. Analyzes problems of both subject matter and methods and appraises them in the light of actual classroom and community needs and of research findings.</p>
ED	517	3 hrs.	<p>COMMUNICATIONS WORKSHOP Development of personal skills in reading and related communicative arts; emphasis on selection of materials and the guidance of activities appropriate to individualized instruction.</p>

ED	519	3 hrs.	BASIC SKILLS IN READING Introduction to reading, history, overview of the fields, and basic instructional procedures. (May not be used as part of the undergraduate area of concentration.)
ED	521	3 hrs.	MANAGEMENT TECHNIQUES FOR THE CLASSROOM This course focuses on preparing students to implement educational techniques and programs which have merit in the special and regular classrooms. Behavior modification techniques and other effective means of managing the classroom are emphasized.
ED	523	3 hrs.	DIAGNOSTIC AND PRESCRIPTIVE TEACHING Addresses the identification of weakness through diagnostic means and implementing remediation techniques through the process prescriptive teaching.
ED	524	3 hrs.	PROBLEMS IN TEACHING ARITHMETIC Presents recent developments in content and methodology for elementary school mathematics. Reviews research in mathematics education and stresses the application of psychological knowledge to curriculum development and classroom practice.
ED	525	3 hrs.	RECENT METHODS AND MATERIALS FOR TEACHING ELEMENTARY READING Emphasis is given to materials; approaches for helping students use reading skills in ever-increasingly difficult circumstances. Particular attention is given to the relationship between reading efficiency and successful achievement in content area.
ED	526	3 hrs.	PROBLEMS AND TRENDS IN ELEMENTARY SCHOOL SCIENCE Examines the historical background of current developments in elementary science curriculum. Investigates: integration of K-12 programs, problems of methodology, philosophy, materials, and evaluation in the teaching and supervision of science. Allows each student to study a particular problem in depth.
ED	527	3 hrs.	EVALUATION AND MEASUREMENT IN SCHOOLS An introduction to specific principles and practices relative to group evaluative procedures with emphasis upon the developmental, diagnostic and projective techniques, case study, and standardized testing procedures within the elementary education range.
ED	529	3 hrs.	SUPERVISION OF THE SCHOOL READING PROGRAM Organization and supervision of the reading program in grades K-12. Emphasis on meeting needs of in-service teachers. Interpretation and use of school-wide data.
ED	530	3 hrs.	THESIS
ED	531	3 hrs.	METHODS AND MATERIALS IN ADULT EDUCATION A survey and analysis of various techniques, methods, and devices for teaching adults.
ED	532	3 hrs.	PRINCIPLES OF ADULT EDUCATION This course exposes students to the philosophy of adult education and learning theories affecting the adult learner. Factors related to learning ability, motivation

and achievement of the adult learner will be explored. Students will be able to demonstrate an understanding of the basic laws and principles of learning, especially as these laws and principles relate to the adult learner.

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| ED | 533 | 3 hrs. | <p>CURRICULUM (METHODS) DEVELOPMENT
A systematic study of the history, theory and practice of public school curriculum development.</p> |
| ED | 534 | 3 hrs. | <p>INTERCULTURAL SENSITIVITY
This course provides a study of the cultural background of different groups of children, implications for learning and teaching, as well as beliefs and attitudes commonly held by teachers.</p> |
| ED | 535 | 3 hrs. | <p>MODELS OF TEACHING IN EARLY CHILDHOOD EDUCATION
This course is designed to focus on the major models in Early Childhood Education that have been identified by noted authorities as effective. Comparing and contrasting the models will take place.</p> |
| ED | 536 | 3 hrs. | <p>ASSESSING THE YOUNG CHILD
This course focuses on the identifying means of screening diagnosing, and determining effective evaluative procedures for the young child. Diagnostic instruments, materials, methods of teaching will be viewed for effectiveness.</p> |
| ED | 538 | 3 hrs. | <p>READING AND LANGUAGE ARTS EXPERIENCES IN EARLY CHILDHOOD EDUCATION
This course focuses on reading readiness skills and language development essential for nursery-kindergarten children. Special attention will be given to procedures and provision of activities to promote and insure maximum growth in these areas of emphasis.</p> |
| ED | 539 | 3 hrs. | <p>MATHEMATICS CONCEPTS AND EXPERIENCES IN EARLY CHILDHOOD EDUCATION
This course is designed to focus on mathematical skills essential for nursery-kindergarten children. Special emphasis will be given to providing the basic concepts in mathematics in order to insure continuous growth in the area.</p> |
| ED | 541 | 3 hrs. | <p>BEHAVIOR FACTORS AND EXPERIENCES IN EARLY CHILDHOOD EDUCATION
This course emphasizes general influences on the child and his world and the understanding and changing of behavior to promote a more productive learning environment for all early childhood levels. Special attention will be given to factors contributing to behavior and suggestions for solving behavioral problems.</p> |
| ED | 542 | 3 hrs. | <p>PRACTICUM IN EARLY CHILDHOOD EDUCATION
This course emphasizes involvement in practical experience in an early childhood setting whereas responsibility includes teaching the content areas under the supervision of a master teacher and university supervisor.</p> |
| ED | 543 | 3 hrs. | <p>THEORY AND HISTORICAL DEVELOPMENTS IN EARLY CHILDHOOD EDUCATION
This course emphasizes growth and development for conception through age six and in the childbearing stage. Basic needs, common recurring pediatric health problems, and common recurring health problems of the maternal cycle are stressed.</p> |

- ED 545 3 hrs. SEMINAR IN EARLY CHILDHOOD EDUCATION
This course is designed to explore the many issues, trends, and innovations that have taken and are taking place in education. Emphasis is placed on problems encountered by both the teacher and student. Reading, research, and discussions will take place focusing on all special emphasis areas.
- ED 546 3 hrs. DIRECTOR OF EARLY LEARNING CENTERS
This course is an internship-type setting with selected directors of early learning centers. Special emphasis will be placed on administrative practices and procedures necessary for effective leadership.
- ED 548 3 hrs. CHILD WELFARE
This course concerns the evaluation and current developments in programs for meeting the needs of children. These developments may include substitute parental care, adoptions, child labor laws, juvenile courts, provisions for unmarried parents, the handicapped child, and the exceptional child.
- ED 549 3 hrs. PARENTING IN A PLURALISTIC SOCIETY
This course focuses on the involvement of parents, the pluralistic nature of American Communities, current status or research on parenting, and the powerful influences made by the home and school in a child's total development. Special attention is given to community values, dignity inherent in cultural customs, tolerance in cultural diversity, and other policy issues dealing with American society.
- ED 550 3 hrs. THESIS IN EARLY CHILDHOOD EDUCATION
This course requires the designing and implementation of a research project under the direct supervision of university staff members. The research will focus on a phase of early childhood education.
- ED 571 3 hrs. ORGANIZATION, PRINCIPLES, AND PROCEDURES FOR EARLY CHILDHOOD EDUCATION
Educational principles and curricular matters relevant to preschool and primary levels of the school program are examined. Attention will be given to model program in the field of Early Childhood Education.
- ED 575 3 hrs. METRICS FOR ELEMENTARY TEACHERS
An overview of the metric system with emphasis on the historic background of measurement. Particular attention will be given to techniques of teaching distance, capacity, and weight to elementary students.
- ED 576 3 hrs. ART FOR ELEMENTARY TEACHERS
This course is designed for prospective teachers in the elementary school. Emphasis will be placed on the creative approach to both fine arts and applied arts. Media such as paper, wood, clay, raffia, yarn and other materials are used.
- ED 580 3 hrs. METHODS AND MATERIALS FOR THE GIFTED
An introduction to teaching techniques and procedures, instructional materials and methodology related to implementation and utilization of contemporary and innovative materials for the gifted.

ED	582	3 hrs.	ISSUES, TRENDS, AND INNOVATIONS IN READING Emphasis is placed on issues, trends, and innovations in reading, successes and failures, and how the knowledge of this contributes to reading success in the instructional setting.
ED	583	3 hrs.	EDUCATIONAL INTERNSHIP I A total immersion one-year supervised experience in a school setting. Prospective teachers learn to apply the most current research and best practice about effective teaching and learning in the living laboratory of the classroom. Pre-requisite: A three-year (non-renewable) special license issued by the Mississippi State Department of Education.
ED	584	3 hrs.	EDUCATIONAL INTERNSHIP II Continuation of Educational Internship I. Interns will apply current research and best practices in teaching.
ED	595	3 hrs.	SEMINAR IN ELEMENTARY EDUCATION This course allows students to survey problems typically encountered by teachers and students studying to become Master Teachers in Elementary Education, and consists of reading, research and discussion in the individual student's interest.
ED	598	3 hrs.	METHODS AND MATERIALS OF READING IN THE SECONDARY SCHOOL Organization of reading instruction in secondary schools.

Educational Administration Course Descriptions (EA)

EA	577	3 hrs.	SYSTEMATIC TEACHER EVALUATION A course designed to train observers in using the Mississippi Teacher Assessment Instruments. Participants will be trained to use Teacher Plans and Materials Instrument (TPM), Position Skills (PS), and Interpersonal Skills (IS) instruments.
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Psychology Course Descriptions (PH)

PH	502	3 hrs.	COMMUNITY MENTAL HEALTH MANAGEMENT This course is a comprehensive study of the knowledge and skills necessary to function effectively, professionally, and ethically in providing appropriate counseling services in a wide variety of mental health environments. It will also assist the counselor to refine the necessary competencies for effective leadership as a mental health manager.
PH	504	3 hrs.	EDUCATIONAL AND PSYCHOLOGICAL STATISTICS Introduces concepts and methods used for quantitative investigation. Enables students to perform and interpret the statistical work ordinarily encountered in studies in psychology and education. Topics include descriptive statics, bi-variate analysis and selected non-parametric techniques.
PH	513	3 hrs.	ADVANCED EDUCATIONAL PSYCHOLOGY This course involves the analysis of psychological theories, principles, and procedures relevant to classroom learning. Special attention will be given to learning theories, testing and evaluation, personality development, and teaching effectiveness.

PH	514	3 hrs.	THEORIES OF LEARNING AND PERSONALITY DEVELOPMENT A study of the nature of contrasting psychologies of learning. This is further designed to discuss and examine problems, research, and solutions through a variety of schools of thought.
PH	523	3 hrs.	ADVANCED CHILD PSYCHOLOGY This course is designed to examine the advanced aspects of physical, social, emotional, mental and value development of the child from infancy up to pre-adolescent period.
PH	525	3 hrs.	PSYCHOLOGY OF EXCEPTIONAL CHILDREN This course offering investigates those constituent disciplines that compose the field Special Education. The causes and incidences of the various exceptionalities within children are investigated in depth. As a graduate course, this course will require mature study, visitation with exceptional children, and surveying legal issues related to exceptional children.
PH	533	3 hrs.	TEST CONSTRUCTION Students will specify or select materials and procedures for assessing learner progress on the objectives. Students will plan assessment procedures or materials appropriate for the objectives and the learners.
PH	535	3 hrs.	IDENTIFICATION, DIAGNOSIS, AND EVALUATION OF STUDENTS WITH DISABILITIES A review of psycho-educational processes and techniques used in screening and identifying learning disabilities. The ability to use current principles, procedures, techniques and instrumentation in assessing learning and behavioral patterns of students with disabilities.
PH	544	3 hrs.	PSYCHOLOGY OF LEARNING AS APPLIED TO TEACHING Examination of learning processes in both humans and cognition to the classroom situation.
PH	550	3 hrs.	INDIVIDUAL MENTAL TESTING A practice in the assessment of intellectual functioning with emphasis on the administration, scoring, and interpretation of individual tests of intelligence.
PH	560	3 hrs.	ABNORMAL PSYCHOLOGY An examination of the symptoms, origins, and treatments of mental disorders, mental retardation, and substance abuse disorders.
PH	579	3 hrs.	PSYCHOLOGY OF THE GIFTED Emphasis is placed on identifying the characteristics, identification, techniques, and evaluation of the gifted.
PH	588	3 hrs.	PSYCHOLOGY OF READING INSTRUCTION The reading process with emphasis on perception and its physiological and psychological correlates.

MASTER OF ARTS IN TEACHING (MAT)

Degree	Requirement for Admission
MAT: Elementary Education	CASE & Praxis II
MAT: Secondary Education	CASE & Praxis II

GRADUATE FACULTY

Tabitha Smith, Director, Master of Arts in Teaching Program and Assistant Professor of Education, A.S., Coahoma Community College; B.S., Alcorn State University; M.S., Alcorn State University; Ed.D., Nova Southeastern University

Program Description

The Master of Arts in Teaching Program is designed for students who have obtained a bachelor's degree in a field other than education and who are not eligible for teacher licensure. The M.A.T program is designed to meet teacher licensure requirements at the graduate level in the state of Mississippi. The Mississippi Department of Education requires unlicensed degree holders who are interested in the teaching field to enroll in the MAT program or other alternate route programs. A qualified candidate must pass CASE and Praxis II, enroll and complete ED 521 and ED 527 classes, then apply for a three-year Provisional Class A license. After completing teaching internships ED 583 and ED 584 the candidate may apply for a Class A standard license (5 years). If a candidate completes the MAT program, he/she can then apply for a Class AA standard license.

Upon completion of this program, the candidates will have the ability to demonstrate the following learning outcomes:

1. To understand the central concepts, tools of inquiry, and structures of the discipline he or she teaches and can create learning experiences that make these aspects of subject matter meaningful for students.
2. To understand how children learn, develop, and to provide learning opportunities that support a child's intellectual, social, and personal development.
3. To understand and use a variety of instructional strategies to encourage student development of critical thinking, problem solving, and performance skills.
4. To plan instruction based upon knowledge of subject matter, students, the community, and curriculum goals.
5. To understand and use formal and informal assessment strategies to evaluate and ensure the continuous intellectual, social, and physical development of the learner.
6. To use knowledge of effective verbal, nonverbal, and media communication techniques to foster active inquiry, collaboration, and supportive interaction in the classroom.
7. To use educational technology as an instructional and management tool.
8. To collaborate with colleagues, parents/guardians, and other members of the community to support student learning and well-being and demonstrate knowledge of the role of the school in the community.
9. To understand how students differ in their approaches to learning and create instructional opportunities that are adapted to diverse learners.

Program Admission Requirements

Students who wish to be admitted to the M.A.T. program should first seek admission to Graduate School. Official transcripts and documentation of all required test scores should be forwarded with the admission application. Program requirements are subject to change; therefore, applicants should meet with their advisor or department chairperson to review requirements.

ENDORSEMENT AREA: ELEMENTARY EDUCATION

Course Requirements

Pre-Teaching Required Courses (6 hours)		Credits
ED 521	Management Techniques for the Classroom	3 hrs.
ED 527	Evaluation and Measurement Schools	3 hrs.
Courses Required During First Year of Teaching (6 hours)		Credits
ED 583	MAT Internship I	3 hrs.
ED 584	MAT Internship II	3 hrs.
Core Courses for AA Licensure (12 hours)		Credits
PH 525	Psychology of Exceptional Children	3 hrs.
CS 513	Computer Application in Instructions	3 hrs.
ED 519	Basic Skills in Reading	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
Elementary Track (9 hours)		Credits
ED 524	Problems in Teaching Arithmetic	3 hrs.
ED 525	Recent Meth & Mtls for Teaching Elementary Reading	3 hrs.
ED 595	Seminar in Elementary Education	3 hrs.
TOTAL		33 hrs.

ENDORSEMENT AREA: SECONDARY EDUCATION

Course Requirements

Pre-Teaching Courses (6 hours)		Credits
ED 521	Management Techniques for the Classroom	3 hrs.
ED 527	Evaluation and Measurement in Schools	3 hrs.
Courses Required During First Year of Teaching (6 hours)		Credits
ED 583	MAT Internship I	3 hrs.
ED 584	MAT Internship II	3 hrs.

Core Courses for AA Licensure (12 hours)		Credits
PH 525	Psychology of Exceptional Children	3 hrs.
CS 513	Computer Application in Instructions	3 hrs.
ED 598	Methods and Materials of Reading in Secondary School	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
Secondary Track (9 hours)		Credits
	Modern Methods of Teaching (3 hours in area)	3 hrs.
ED 533	Curriculum Development	3 hrs.
	Any specialized content area courses (3 hrs.)	3 hrs.
TOTAL		33 hrs.

EDUCATION COURSE DESCRIPTIONS (ED)

ED	514	3 hrs.	<p>METHODS OF EDUCATION RESEARCH Study of the several approaches to the formulation of research problems, data analysis and hypothesis testing; appraisal and evaluation of published research; techniques of surveying research literature; preparation of short research papers. Development of research proposal is a course requirement.</p>
ED	519	3 hrs.	<p>BASIC SKILLS IN READING Introduction to reading, history, overview of the fields, and basic instructional procedures. (May not be used as part of the undergraduate area of concentration.)</p>
ED	521	3 hrs.	<p>MANAGEMENT TECHNIQUES FOR THE CLASSROOM This course focuses on preparing students to implement educational techniques and programs which have merit in the special and regular classrooms. Behavior modification techniques and other effective means of managing the classroom are emphasized.</p>
ED	524	3 hrs.	<p>PROBLEMS IN TEACHING ARITHMETIC Presents recent developments in content and methodology for elementary school mathematics. Reviews research in mathematics education and stresses the application of psychological knowledge to curriculum development and classroom practice.</p>
ED	525	3 hrs.	<p>RECENT METHODS AND MATERIALS FOR TEACHING ELEMENTARY READING Emphasis is given to materials, approaches for helping students use reading skills in ever-increasingly difficult circumstances. Particular attention is given to the relationship between reading efficiency and successful achievement in content area.</p>
ED	527	3 hrs.	<p>EVALUATION AND MEASUREMENT IN SCHOOLS An introduction to specific principles and practices relative to group evaluative procedures with emphasis upon the developmental, diagnostic and projective techniques, case study, and standardized testing procedures within the elementary education range.</p>

ED	533	3 hrs.	CURRICULUM (METHODS) DEVELOPMENT A systematic study of the history, theory and practice of public school curriculum development.
ED	583	3 hrs.	EDUCATIONAL INTERNSHIP I Part one of a total immersion one-year supervised experience in a school setting. Prospective teachers learn to apply the most current research and best practice about effective teaching and learning in the living laboratory of the classroom. Pre-requisite: A three-year (non-renewable) special license issued by the Mississippi State Department of Education.
ED	584	3 hrs.	EDUCATIONAL INTERNSHIP II Part of two of a total immersion one-year supervised experience in a school setting. Prospective teachers learn to apply the most current research and best practice about effective teaching and learning in the living laboratory of the classroom. Pre-requisite: A three-year (non-renewable) special license issued by the Mississippi State Department of Education.
ED	595	3 hrs.	SEMINAR IN ELEMENTARY EDUCATION This course allows students to survey problems typically encountered by teachers and students studying to become Master Teachers in Elementary Education, and consists of reading, research and discussion in the individual student's interest.
ED	598	3 hrs.	METHODS AND MATERIALS OF READING IN THE SECONDARY SCHOOL Organization of reading instruction in secondary schools.

Psychology Course Description (PH)

PH	598	3 hrs.	PSYCHOLOGY OF EXCEPTIONAL CHILDREN This course offering investigates those constituent disciplines that compose the field of Special Education. The causes and incidences of the various exceptionalities within children are investigated in depth. As a graduate course, this course will require mature study, visitation with exceptional children, and surveying legal issues related to exceptional children.
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MASTER OF SCIENCE IN EDUCATION DEGREE IN SECONDARY EDUCATION

Program Description

The graduate program for the Secondary Education Masters offers endorsements in eleven areas for the practicing licensed educator. Graduates are prepared for advanced preparation to serve as teachers in various educational capacities.

Upon completion of the courses, the student will be able to:

1. Apply the central concepts, tools of inquiry, structures, contemporary theories, and paradigms in education that develop a classroom climate to enhance the social, emotional, physical and psychological aspects of students;
2. Create and deliver lesson segments that reflect theory and practice;
3. Demonstrate effective interpersonal communication skills of speaking, listening, reading, and writing when interacting with pupils, parents, teachers, and other school personnel
4. Design performance-based assessments and implement assessment, instruction, evaluation, and intervention plans;
5. Use media and technology as tools for professional development and to promote student learning; and
6. Model professionalism and high ethical standards in the classroom, and develop appropriate strategies for self-evaluation as a means of assessing one's own professionalism and teaching effectiveness.

Course Requirements

Core Education Courses (12 hours)	Credits
ED 512 Foundations of American Education.	3 hrs.
ED 514 Methods of Educational Research	3 hrs.
PH 513 Advanced Educational Psychology	3 hrs.
ED 533 Curriculum (Methods) Development	3 hrs.
Field of Endorsement plus Electives (21 hours)	21 hrs.
TOTAL	33 hrs.

ENDORSEMENT AREA: SCHOOL COUNSELING

Degree

Master of Science in Secondary Education: School Counseling

Requirement for Admission

GRE General Test or CASE

GRADUATE FACULTY

Somnia Lynn Etheridge, Visiting Assistant Professor of Counseling, B.S., The University of Mississippi; M.S., Mississippi College; J.D., The University of Mississippi Law School; Ph.D., The University of Mississippi

Gerald Peoples, Professor of School Counseling, B.S., Grambling State University; M.S., Grambling State University; Ph.D., Kansas State University

Program Description

The curriculum in School Counseling is designed to prepare students for employment as counselors in the educational arena and the mental health field. This degree consists of 51 hours of required coursework. Completion of this curriculum will qualify students for the class AA certificate in the state of Mississippi and permit them to sit for the required PRAXIS exam in school counseling and guidance.

The primary objectives of this endorsement area are to:

1. Provide a level of instruction for potential counselors that will enable them to produce self-directed persons who are capable of making healthy life choices;
2. Provide a level of instruction for potential counselors to develop competencies in the Council for Accreditation of Counseling and Related Educational Program's (CACREP) eight common core knowledge areas: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation;
3. Foster and nurture in potential counselors a personal commitment to high standards of education, competent levels of verbal and written communication skills, and a dedication to service;
4. Foster and nurture in potential counselors the ability and desire to think critically, read broadly, and pursue education and growth continually;
5. Teach and foster knowledge of and quest for the highest ethical standards, increasing levels of multicultural competency, and ongoing critical self-awareness and personal growth;
6. Foster in potential counselors a quest for knowledge, intellectual curiosity, and sustainable self-efficacy.

Admission Requirements

1. A minimum cumulative GPA of 3.00 for regular admission and 2.5 for conditional admission at the undergraduate level.
2. A score on the GRE within the last five years sent directly to the Office of Graduate Studies.
3. Three letters of recommendation sent directly to the Office of Graduate Studies.

Degree Requirements

1. To qualify for a Master of Science in Education degree with an Endorsement in School counseling the student must complete the 51 hours of coursework, maintain a 3.00 GPA or above and obtain a passing score on the Praxis II in the area of School Guidance and Counseling.
2. To qualify for a Master of Science in Education degree with an Endorsement in Clinical Mental Health Counseling the student must complete the 60 hours of coursework, maintain a 3.00 GPA or above and obtain a passing score on the Counselor Preparation Comprehensive Examination.

Course Requirements

Core Education Courses (6 hours)

		Credits
ED 514	Methods of Educational Research & Statistics (LPC/NCC/NCE)	3 hrs.
ED 533	Curriculum Development	3 hrs.
PH 504	Psychological Statistics	3 hrs.

Required Courses (42 hours)

		Credits
CM 502		
CM 508	Introduction to Counseling**(LPC/NCC/NCE)	3 hrs.
CM 510	Counseling & Psychological Theory**(LPC/NCC/NCE)	3 hrs.
CM 511	Counseling Techniques**	3 hrs.
CM 512	Career Development (LPC/NCC/NCE)	
CM 513	Group Procedures (LPC/NCC/NCE)	3 hrs.
CM 515	Organization, Administration & Consultation in School Counseling	3 hrs.
CM 516	Psychological Assessment Techniques in Counseling (LPC/NCC/NCE)	3 hrs.
CM 519A	School Counseling Practicum (Spring Only)	3 hrs.
CM 520A	School Counseling Internship I (Fall Only)	3 hrs.
CM 521A	School Counseling Internship II (Spring Only)	3 hrs.
CM 524	Legal, Ethical, Professional Issues in Counseling** (LPC/NCC/NCE)	3 hrs.
CM 525	Psychological Aspects of Human Growth & Development (LPC/NCC/NCE)	3 hrs.
CM 540	Multicultural Counseling & Psychology**(LPC/NCC/NCE)	3 hrs.
Total		51 hrs.

**Denotes Qualifying courses that must be successfully completed prior to Enrollment in Practicum and Internship.

Optional Electives (only for specialization or other counseling credentials)

	Credits
CM 530 Psycho-Diagnostics in Counseling (LPC/NCC/NCE)	3 hrs.
CM 532 Marriage and Family Counseling (LPC/NCC/NCE)	3 hrs.
CM 533 Human Sexuality Issues in Counseling	3 hrs.
CM 534 Addiction-Focused Counseling	3 hrs.
CM 535 Advanced Abnormal Psychology	3 hrs.
CM 536 Grief & Loss Issues in Counseling	3 hrs.
CM 537 Spirituality in Counseling	3 hrs.
CM 538 Special Issues in Counseling & Psychology	3 hrs.
PH 513 Advanced Educational Psychology	3 hrs.

ENDORSEMENT AREA: CLINICAL MENTAL HEALTH COUNSELING**Degree**

Master of Science in Secondary Education: Clinical
Mental Health Counseling

Requirement for Admission

GRE General Test or CASE

GRADUATE FACULTY

Somonia Lynn Etheridge, Visiting Assistant Professor of Counseling, B.S., The University of Mississippi; M.S., Mississippi College; J.D., The University of Mississippi Law School; Ph.D., The University of Mississippi

Program Description

The curriculum in Clinical Mental Health Counseling is designed to prepare students for employment as counselors in the mental health field. This degree consists of 60 hours of required coursework. Completion of this curriculum will qualify students for the class AA certificate in the state of Mississippi and permit them to sit for the required PRAXIS exam in school counseling and guidance. The primary objectives of this endorsement area are to:

1. Provide a level of instruction for potential counselors that will enable them to produce self-directed persons who are capable of making healthy life choices;
2. Provide a level of instruction for potential counselors to develop competencies in the Council for Accreditation of Counseling and Related Educational Program's (CACREP) eight common core knowledge areas: Professional Identity, Social and Cultural Diversity, Human Growth and Development, Career Development, Helping Relationships, Group Work, Assessment, and Research and Program Evaluation;
3. Foster and nurture in potential counselors a personal commitment to high standards of education, competent levels of verbal and written communication skills, and a dedication to service;
4. Foster and nurture in potential counselors the ability and desire to think critically, read broadly, and pursue education and growth continually;
5. Teach and foster knowledge of and quest for the highest ethical standards, increasing levels of multicultural competency, and ongoing critical self-awareness and personal growth;

6. Foster in potential counselors a quest for knowledge, intellectual curiosity, and sustainable self-efficacy.

Admission Requirements

1. A minimum cumulative GPA of 3.00 for regular admission and 2.5 for conditional admission at the undergraduate level.
2. A score on the GRE within the last five years sent directly to the Office of Graduate Studies.
3. Two letters of recommendation sent directly to the Office of Graduate Studies.

Degree Requirements

1. To qualify for a Master of Science in Education degree with an Endorsement in Clinical Mental Health Counseling the student must complete the 60 hours of coursework, maintain a 3.00 GPA or above and obtain a passing score on the Counselor Preparation Comprehensive Examination.

Course Requirements

Core Education Courses (6 hours)

		Credits
ED 514	Methods of Educational Research & Statistics	3 hrs.
PH 504	Psychological Statistics	3 hrs.

Required Courses (48 hours).

		Credits
CM 502	Behavior Modification	3 hrs.
CM 508	Introduction to Counseling** (LPC/NCC/NCE)	3 hrs.
CM 511	Counseling Techniques** (LPC/NCC/NCE)	3 hrs.
CM 512	Career Development (LPC/NCC/NCE)	3 hrs.
CM 513	Group Procedures (LPC/NCC/NCE) [Spring only]	3 hrs.
CM 515	Organization, Administration & Consultation	3 hrs.
CM 516	Psychological Assessment Techniques in Counseling (LPC/NCC/NCE)	3 hrs.
CM 519B	Clinical Mental Health Practicum (Spring Only)	3 hrs.
CM 520B	Clinical Mental Health Internship I (Fall Only)	3 hrs.
CM 521B	Clinical Mental Health Internship II (Spring Only)	3 hrs.
CM 525	Psychological Aspects of Human Growth and Development** (LPC/NCC/NCE)	3 hrs.
CM 530	Psycho-Diagnostics in Counseling (LPC/NCC/NCE)	3 hrs.
CM 531	Supervised Laboratory in Counseling	3 hrs.
CM 532	Marriage and Family Counseling (LPC/NCC/NCE)	3 hrs.
CM 540	Multicultural Counseling & Psychology** (LPC/NCC/NCE)	3 hrs.
	Total	60 hrs.

Electives (6 Hours)

		Credits
CM 533	Human Sexuality Issues in Counseling	3 hrs.
CM 534	Addiction-Focused Counseling	3 hrs.
CM 535	Advanced Abnormal Psychology	3 hrs.
CM 536	Grief & Loss Issues in Counseling	3 hrs.
CM 537	Spirituality in Counseling	3 hrs.
CM 538	Special Issues in Counseling & Psychology	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.

*Applicants must have earned a "C" or better on the two required prerequisites listed on the program of study.

**Denotes Qualifying courses that must be successfully completed prior to enrollment in Practicum and Internship.

Course Descriptions (CM)

CM	502	3 hrs.	BEHAVIOR MODIFICATION This course emphasizes principles and techniques of behavior modification with emphasis on the application of behavior analysis to the modification of normal and deviant behavior in school and community settings.
CM	508	3 hrs.	INTRODUCTION TO COUNSELING** <i>Prerequisite or corequisite to every other counseling course</i> Historical and theoretical coverage as well as present day practices and trends of the guidance movement will be considered. Particular attention will be given to the role and responsibilities of various school personnel in the school setting.
CM	510	3 hrs.	COUNSELING & PSYCHOLOGICAL THEORY** Students will engage in the study of the basic theoretical approaches to counseling as well as their practical applications.
CM	511	3 hrs.	COUNSELING TECHNIQUES** Students are taught basic counseling skill development and the counseling conceptualization process. Attention given to establishing therapeutic relationships and prioritizing client problems/issues. Students will be expected to demonstrate proficiency in basic counseling competencies.
CM	512	3 hrs.	CAREER DEVELOPMENT This course will explore career development theories and their application to counseling. Implementation of educational, occupational, social informational, and placement services within counseling will be addressed.
CM	513	3 hrs.	GROUP PROCEDURES The course includes a study of the basic theories of group counseling and the clinical practice of applying those theories.
CM	514	3 hrs.	METHODS of EDUCATIONAL RESEARCH & STATISTICS The course includes a study of the several approaches to the formulation of research problems, data analysis and hypothesis testing, appraisal and evaluation of published research, techniques of surveying research literature,

and preparation of short research papers. Emphasis is placed on reading basic research methodologies and critical analysis of published research in the social and behavioral sciences.

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| CM | 515 | 3 hrs. | <p>ORGANIZATION, ADMINISTRATION, & CONSULTATION in SCHOOL COUNSELING
This course is designed to familiarize the student with the current theories and practice of consultation in mental health and educational settings.</p> |
| CM | 516 | 3 hrs. | <p>PSYCHOLOGICAL ASSESSMENT TECHNIQUES in COUNSELING
Students are instructed on the techniques of studying the individual through formal and informal methods of evaluation. Individual and group measures will be considered as they are administered, analyzed, interpreted and reported. A comprehensive study will be made of all aspects of measurement to include moral, legal and ethical considerations.</p> |
| CM | 518 | 3 hrs. | <p>CRISIS INTERVENTION
Students are taught techniques for the application of counseling in crisis situations.</p> |
| CM | 519 | 3 hrs. | <p>SCHOOL COUNSELING PRACTICUM
<i>Prerequisite: Qualifying courses must be successfully completed prior to enrollment in this course or faculty approval</i>
Students will engage in limited supervised, practical clinical and administrative counseling experiences in selected and approved community or educational settings. Student/professional liability insurance is required prior to enrollment.</p> |
| CM | 520 | 3 hrs. | <p>SCHOOL COUNSELING INTERNSHIP I
<i>Prerequisite: Qualifying courses must be successfully completed prior to enrollment in this course or faculty approval</i>
Advanced students will engage in supervised, practical clinical and administrative counseling experiences for one academic year in selected and approved community or educational settings. Professional liability insurance is required prior to enrollment.</p> |
| CM | 521 | 3 hrs. | <p>SCHOOL COUNSELING INTERNSHIP II
<i>Prerequisite: Qualifying courses must be successfully completed prior to enrollment in this course or faculty approval</i>
Advanced students will engage in supervised, practical clinical and administrative counseling experiences for one academic year in selected and approved community or educational settings. Professional liability insurance is required prior to enrollment.</p> |
| CM | 524 | 3 hrs. | <p>LEGAL, ETHICAL & PROFESSIONAL ISSUES IN COUNSELING**
Current ethical and legal guidelines and professional issues relevant to training, research, and practice in counseling are covered.</p> |
| CM | 525 | 3 hrs. | <p>HUMAN GROWTH & DEVELOPMENT**
Focus is on familiarizing students with the physical, emotional, and social growth of humans, with special emphasis given to development across the life span.</p> |

- CM 530 3 hrs. PSYCHO-DIAGNOSTICS IN COUNSELING
This course will introduce students to various facets of diagnosis within assessment process and the structure of the current Diagnostic Statistical Manual (DSM) and its use in counseling.
- CM 532 3 hrs. MARRIAGE AND FAMILY COUNSELING
This course provides an overview of the historical roots of family counseling and the major theoretical orientations. A brief overview of the role of research, multiculturalism, and ethics in family counseling is explored.
- CM 533 3 hrs. HUMAN SEXUALITY ISSUES IN COUNSELING
This course will address the topic of human sexuality with attention given to this issue from both an individual perspective and within a relationship.
- CM 534 3 hrs. ADDICTION-FOCUSED COUNSELING
This course surveys the complex field of addictions, including addiction to legal and illegal substances, sex, food, and gambling. It provides an overview of the fundamental concepts of addiction, the cultural factors (i.e. historical, geographic, economic, socio-cultural, genetic, values, lifestyles) impacting addictions, the cultural aspects (i.e. personal, public health, family, social, economic) impacted by addictions, assessment and treatment approaches from an individual and systemic perspective for addiction disorders.
- CM 535 3 hrs. ADVANCED ABNORMAL PSYCHOLOGY
This course is designed to examine the advanced aspects of research and theory dealing with the etiology, symptomatology, and treatment of abnormalities of behavior.
- CM 536 3 hrs. GRIEF & LOSS ISSUES IN COUNSELING
Students will focus on the study of grief and the techniques of grief and bereavement counseling, including a study of grief as it relates to various types of losses.
- CM 537 3 hrs. SPIRITUALITY IN COUNSELING
This course is an exploration of current theory and knowledge about the intersection of human spirituality and mental health issues and the development of clinical skills in working with spiritual and religious issues in counseling.
- CM 538 3 hrs. SPECIAL ISSUES IN COUNSELING & PSYCHOLOGY
Research and applied analysis of special topics related to counseling.
- CM 540 3 hrs. MULTICULTURAL COUNSELING & PSYCHOLOGY**
This course is designed to provide an introduction to and an overview of the challenges and processes of guidance and counseling in our culturally diverse society. Culturally relevant models of theory and practice will be explored.

PSYCHOLOGY (PH)

- PH 513 3 hrs. ADVANCED EDUCATIONAL PSYCHOLOGY
This course involves the analysis of psychological theories, principles, and procedures relevant to classroom learning. Special attention will be given to learning theories, testing and evaluation, personality development, and teaching effectiveness.

**** Denotes Qualifying courses that must be successfully completed prior to enrollment in Practicum and Internship.**

ENDORSEMENT AREA: SPECIAL EDUCATION

Program Description

The Master of Science in Education degree in special education is designed to enhance the teaching skills of K-12 Mild/Moderate Special Education teachers, or for teachers who have mild/moderate students within their non-special education classroom. This degree consists of 36 hours of course work. Candidates seeking endorsements in intellectual disabilities or learning disabilities can meet with an advisor to develop a prescribed program of study. Completion of this curriculum in special education will enable a student to meet the educational requirements for a Class AA Special Education Certificate in the State of Mississippi.

The objectives of the endorsement in Educationally Disabled are:

1. to identify important legal and policy issues in special education;
2. demonstrate knowledge of the research processes within the field of special education;
3. demonstrate knowledge of specific characteristics of individuals with mild disabilities;
4. implement scientifically based interventions for students with disabilities in a variety of settings.

To receive a Master of Science in Education Degree with an endorsement in special education a person must meet the following requirements:

1. hold or qualify to hold a Class "A" Teacher Certificate;
2. at least two years of teaching experience;
3. complete a planned program of study that includes;
 - a. 12 hours of core courses
 - b. 21 hours area of endorsement
 - c. 3 hours of elective course

AREA OF SPECIALIZATION: EDUCATIONALLY DISABLED

Course Requirements

Core Education Courses (12 hours)		Credits
ED 512	Foundation of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.

Required Courses (21 hours)		Credits
SE 535	Introduction to Mental Retardation	3 hrs.
SE 536	Introduction to Learning Disabilities	3 hrs.
SE 540	Methods/Mat for Mental Retardation	3 hrs.
SE 541	Methods/Mat for Learning Disabilities	3 hrs.
SE 545	Individualized Instruct/Students with Disabilities	3 hrs.
SE 553	Counseling Children with Disabilities and Their Parents	3 hrs.
PH 525	Psychology of Exceptional Children	3 hrs.
Elective (3 hours)		Credits
SE 537	Introduction to Students/ Emotional Disturbances	3 hrs.
SE 542	Methods and Materials/Emotional Disturbances	3 hrs.
SE 551	Administration & Supervision/ Sped Education	3 hrs.
TOTAL		36 hrs.

*See Catalog for Policy on Residence and Transfer Credits

SPECIAL EDUCATION COURSE DESCRIPTIONS (SE)

SE	535	3 hrs.	INTRODUCTION TO INTELLECTUAL DISABILITIES This course is concerned with the nature of intelligence; causes of intellectual disabilities, characteristics, and identification of individuals with intellectual disabilities.
SE	536	3 hrs.	INTRODUCTION TO LEARNING DISABILITIES This course emphasizes psychological diagnostic testing of children with learning disabilities and a concise study of the disorders of visual and auditory perception, language & motor coordination. Relationship between diagnostic findings and re-mediating the child's disabilities are stressed.
SE	537	3 hrs.	INTRODUCTION TO THE EMOTIONALLY DISTURBED Considers various theoretical aspects of emotional disturbances in children and means of inducing change. Emphasizes practical problems in school and social situations.
SE	538	3 hrs.	PERCEPTUAL AND PSYCHO-MOTOR LEARNING This course is concerned with the development and remediation of sensory-motor, perceptual and cognitive skills of individuals with disabilities.
SE	540	3 hrs.	METHODS AND MATERIALS FOR TEACHING CHILDREN WITH INTELLECTUAL DISABILITIES This course emphasizes effective specialized teaching techniques and programs for the individuals with intellectual disabilities. Major units of instruction are formulated for curriculum innovation and programs in academic skills, motor development and occupational readiness.

- SE 541 3 hrs. METHODS AND MATERIALS FOR CHILDREN WITH LEARNING DISABILITIES
This course emphasizes effective specialized teaching techniques and procedures for teaching individuals with learning disabilities.
- SE 542 3 hrs. METHODS AND MATERIALS FOR CHILDREN WITH BEHAVIORAL AND EMOTION DISORDERS
This course emphasizes procedures, organization and techniques, methods, materials, and behavioral strategies used in education of individuals with emotional disorders.
- SE 545 3 hrs. INDIVIDUALIZED INSTRUCTION FOR STUDENTS WITH DISABILITIES
Clinical-perspective teaching and management models in classroom settings with individualization of methods and materials; reinforcement theory; behavior management programs and techniques applied to problems of individuals with disabilities.
- SE 548 3 hrs. PRE-VOCATIONAL, VOCATIONAL EDUCATION AND TRAINING FOR STUDENTS WITH DISABILITIES
Career awareness and information, curriculum, program administration, services and legal aspects for vocational education and training for exceptional children; occupational information, counseling, work evaluation and adjustment principles.
- SE 551 3 hrs. ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION
Considers the evaluation of special types of education, state and local agencies involved in administration and supervision of special education, methods of commitment to institutions, and the training of teachers and related topics.
- SE 553 3 hrs. COUNSELING CHILDREN WITH DISABILITIES AND THEIR PARENTS
Children with disabilities manifest serious emotional and psychological problems in addition to expected academic, social and behavior problems. This course emphasizes effective methods in helping parents understand and meet the unique needs of their children.
- SE 559 3 hrs. LANGUAGE DEVELOPMENT AND LANGUAGE DISORDER
This course is designed for students concerned with the development of language and/or language disorders resulting from aphasia, hearing loss, emotional disturbance, mental retardation and cerebral palsy.
- SE 580 3 hrs. INTERNSHIP AND DIRECTED STUDY IN STUDENTS WITH DISABILITIES
Allows the student to practice in the field of skills which he has been trained. The staff member under whose direction the work is to be done will coordinate the arrangements with the field supervisor who will furnish a report on the student's work.
- SE 590 3 hrs. INDIVIDUAL STUDY IN STUDENTS WITH DISABILITIES: THESIS
Requires the student to initiate and carry to completion a research project under the supervision of a staff member. Student may enroll in the course to satisfy six hours of elective credit.

SE	591	3 hrs.	ASSESSMENT: ELEMENTARY DISABILITIES This course is a graduate course emphasizing identification, diagnostic instruments, and methods and materials, for teaching mild to moderate individuals with disabilities at the secondary level.
SE	592	3 hrs.	ASSESSMENT: SECONDARY DISABILITIES This course is a graduate course emphasizing identification, diagnostic instruments, and materials, methods for teaching mild to moderate individuals with disabilities at the secondary level.
SE	593	3 hrs.	ASSESSMENT: PRE-SCHOOL DISABILITIES This is a graduate course emphasizing screening, identification, diagnostic instruments, and materials and methodology for teaching students with mild to moderate disabilities at the pre-school level.

CERTIFICATION AREA: GIFTED EDUCATION

Program Description

The Certification Program in Gifted Education is a new addition to the Department of Education and Psychology's Programs in Special Education. This is a 15- hour Certification Program which has been designed to enable the licensed education professional to obtain skills and training in Gifted Education in order to become highly qualified to teach gifted learners in a P-12 setting. All classes will be offered online. Students who have taken PH 525 may be able to complete this program in a single summer. More specific outcomes of this endorsement address major standards teachers will be able to demonstrate competency.

Student will be able to:

1. Recognize a high-ability student who needs more depth and complexity in instruction or who may need a referral for further assessment and service;
2. Design appropriate learning and performance modifications for individuals with gifts and talents that enhance creativity, acceleration, depth and complexity in academic subject matter and specialized domains;
3. Coordinate gifted and talented programs and services for PreK-Grade 12;
4. Be familiar with the theory, research, curriculum strategies, and educational practices necessary to develop and sustain high quality classroom-based opportunities for advanced student learning and
5. Select, adapt, and use a repertoire of evidence-based instructional strategies to advance the learning of gifted and talented students.

Course Requirements

Core Education Courses (12 hours)		Credits
PH 525*	Psychology of Exceptional Children	3 hrs.
PH 579	Psychology of the Gifted	3 hrs.
ED 580	Methods and Materials for the Gifted	3 hrs.
SE 582	Curriculum and Program Development for Gifted Learners	3 hrs.
SE 551	Administration and Supervision of Special Education	3 hrs.
TOTAL		15 hrs.

***This course should be taken first**

Gifted Education Course Descriptions

PH	525	3 hrs.	<p>PSYCHOLOGY OF EXCEPTIONAL CHILDREN This course offering investigates those constituent disciplines that compose the field of Special Education. The causes and incidences of the various exceptionalities within children are investigated in depth. As a graduate course, this course will require mature study, visitation with exceptional children, and surveying legal issues related to exceptional children.</p>
PH	579	3 hrs.	<p>PSYCHOLOGY OF THE GIFTED Emphasis is placed on identifying the characteristics, identification, techniques, and evaluation of the gifted.</p>
ED	580	3 hrs.	<p>METHODS AND MATERIALS FOR THE GIFTED An introduction to teaching techniques and procedures, instructional materials and methodology related to implementation and utilization of contemporary and innovative materials for the gifted.</p>
SE	582	3 hrs.	<p>CURRICULUM AND PROGRAM DEVELOPMENT FOR GIFTED LEARNERS An exploration and examination of current curricula instructional models and methods of curriculum development employed in teaching gifted and talented learners. Emphasis will be placed on curricular models and selecting materials used in instructional planning for gifted learners in Pk-12 schools. Opportunities will be provided for the development of curriculum for the gifted learners.</p>
SE	551	3 hrs.	<p>ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION Considers the evaluation of special types of education, state and local agencies involved in administration and supervision of special education, methods of commitment to institutions, and the training of teachers and related topics.</p>

SPECIALIST IN ELEMENTARY EDUCATION

Degree
Specialist in Elementary Education

Requirement for Admission
AA Educator License

Program Description

The Department of Education and Psychology offers the Educational Specialist Degree. In this program of study, candidates analyze current issues, educational trends, theories, policies, and practices affecting rural and urban schools and communities. Candidates in this program of study will be able to apply their research findings in practical situations through means of assignments and field experiences. Upon completion of the program the graduate will demonstrate an acute awareness of their field of study, as shown by their proven ability to apply principles and concepts to real life situations.

Admission Requirements:

To be considered for admission to the specialist degree program, the applicant must:

1. Have a master's degree in elementary education or related field;
2. Have a grade point average of at least 3.20 on a scale where an "A" equals 4.0;
3. Hold a valid teacher's AA license in elementary or secondary education (**teaching fields only**) or related field.

*Note: If a person is admitted with a secondary teacher's license, they will be endorsed in 4-8 only. If the Mississippi State Department of Education changes the licensure structure, the School of Education and Psychology must adhere to the changes. This program is not intended for individuals who have only an endorsement in Guidance Education who do not work in schools.

The Specialist Degree requires:

- Admission to the program;
- Submission of an approved program of study;
- Successfully completing a specialist written examination; and
- Writing an acceptable thesis and defending it orally.

Expected Outcomes

Upon completion of the specialist program, graduates should be able to demonstrate competency in the following areas:

1. Exceptional effectiveness in instructional techniques;
2. Exceptional knowledge of specialized subject matter;
3. Leadership in skills in curriculum development;
4. Knowledge of research techniques;
5. Knowledge of technology skills;
6. Classroom Management skills; and
7. Involvement in system-wide in service programs.

The Traditional Specialist Program is designed for students that would like to take courses at a slower rate. The courses in this program will be offered during the entire sixteen-week schedule. The maximum number of courses that a student can take during the fall or spring semester is nine. During the summer a student can potentially complete a maximum of twelve hours.

Course Requirements – Traditional Program

Required Core Courses (12 Hours)		Credits
PH 614	Learning Theories	3 hrs.
ED 627+	Evaluation and Measurement	3 hrs.
ED 629+	Research Design and Statistics	3 hrs.
ED 695	Advanced Seminar in Elem. Education	3 hrs.
Required Courses (27 Hours)		Credits
PH 604	Psychological Statistics/Technology	3 hrs.
PH 690	Psychological Foundations of Education	3 hrs.
ED 600	Advanced Studies in Multicultural Education	3 hrs.
ED 602*	Introduction to Research Methods	3 hrs.
ED 616	Advanced Studies in Elem. Social Studies <i>or</i>	3 hrs.

ED 624	Advanced Studies in Elem. Mathematics <i>or</i>	
ED 625	Advanced Studies in Elem. Reading <i>or</i>	
ED 626	Advanced Studies in Elem. Science	
ED 619	Basic Skills in Reading	3 hrs.
ED 621	Classroom Management	3 hrs.
ED 632	Advanced Studies in Teaching Methods	3 hrs.
ED 637	Advanced Media Technology	3 hrs.
ED 698**	Thesis I	3 hrs.
ED 699**	Thesis II	3 hrs.
TOTAL		39 hrs.

*Restricted: Students must take these 6 credit hours at the end of their program of study.

+Prerequisites: Courses must be taken before ED 698 and ED 699

*Course must be taken during the first semester of enrolling in the Education Specialist Program.

The Accelerated Specialist Program is designed for students that would like to take courses at a more advanced pace utilizing a prescribed chronological order. The courses in this program will be offered in eight week increments. The maximum number of courses that a student can take during the fall or spring semester is twelve (six hours the first eight weeks and six hours the second eight weeks). During the summer a student can potentially complete a maximum of twelve hours plus hours related to the completion of their special project or thesis.

Course Requirements – Accelerated Program

Required Core Courses (12 Hours)		Credits
PH 614	Learning Theories	3 hrs.
ED 627+	Evaluation and Measurement	3 hrs.
ED 629+	Research Design and Statistics	3 hrs.
ED 695	Advanced Seminar in Elem. Education	3 hrs.
Required Courses (27 Hours)		Credits
PH 604	Psychological Statistics/Technology	3 hrs.
PH 690	Psychological Foundations of Education	3 hrs.
ED 602#	Introduction to Research Methods	3 hrs.
ED 619	Basic Skills in Reading	3 hrs.
ED 621	Classroom Management	3 hrs.
ED 632	Advanced Studies in Teaching Methods	3 hrs.
ED 637	Advanced Media Technology	3 hrs.
ED 698*	Thesis I	
ED 699*	Thesis II	6 hrs.
TOTAL		39 hrs.

*Restricted: Students must take these 6 credit hours at the end of their program of study.

+Prerequisites: Courses must be taken before ED 698 and ED 699.

#Course must be taken during the first semester of enrolling in the Education Specialist Program.

Education Specialist Course Descriptions (ED)

ED	600	3 hrs.	ADVANCED STUDIES IN MULTICULTURAL EDUCATION Examines research as well as the dynamics of culture diversities. Discusses beliefs and attitudes commonly held in different cultures.
ED	602	3 hrs.	INTRODUCTION TO RESEARCH METHODS This course is an advance level educational research course where students in the Educational Specialist program will be expected to gain requisite knowledge to conduct and complete an action research project. Students will be expected to investigate issues related to K-12 education and utilize the appropriate research methods to provide information on ways to advance educational practices. The course will allow students to evaluate their profession and conduct action research. Action research will give the students hands-on experience with conducting research and the opportunity to investigate issues that they may encounter as practitioners. At the conclusion of the course, students will have practical experience to design and implement an action research project.
ED	616	3 hrs.	ADVANCED STUDIES IN THE TEACHING OF ELEMENTARY SCHOOL SOCIAL STUDIES Analyzes problems of subject matter, methods, and theory and appraises them in the light of other related fields. Examines research to determine how material from the social sciences can be effectively integrated in the social studies programs in the schools.
ED	616	3 hrs.	ADVANCED STUDIES IN THE TEACHING OF ELEMENTARY SCHOOL SOCIAL STUDIES Analyzes problems of subject matter, methods, and theory and appraises them in the light of other related fields. Examines research to determine how material from the social sciences can be effectively integrated in the social studies programs in the schools.
ED	619	3 hrs.	BASIC SKILLS IN READING. This course is designed as in-depth of major reading skills. The major thrust is geared to research activities, and strategies essential in the teaching of these basic skills.
ED	621	3 hrs.	MANAGEMENT TECHNIQUES IN THE CLASSROOM This course examines current research on behavior and existing techniques of managing the classroom.
ED	624	3 hrs.	ADVANCED STUDIES IN THE TEACHING OF ELEMENTARY SCHOOL MATHEMATICS This course examines current research in mathematics related to theory, methodology, and curricula matters. Special topics and problems of elementary school mathematics are examined and discussed.
ED	625	3 hrs.	ADVANCED STUDIES IN THE TEACHING OF ELEMENTARY SCHOOL READING This course focuses on current research in reading with special attention to major approaches to teaching reading.

ED	626	3 hrs.	ADVANCED STUDIES IN THE TEACHING OF ELEMENTARY SCHOOL SCIENCE Examines current research of developments in the elementary science curriculum. Investigates theory, methodology, materials and evaluations in the teaching and supervision of science.
ED	627	3 hrs.	EVALUATION AND MEASUREMENT Focuses on current research of specific principles and practices relative to evaluative procedures. Emphasizes in depth analyses of standardized tests and case studies.
ED	629	3 hrs.	RESEARCH DESIGN AND STATISTICS An advanced research course designed to assist students in writing and evaluating their thesis. This course focuses on research design and advanced statistics. Pre-requisite: ED 514.
ED	632	3 hrs.	ADVANCED STUDIES METHODS-MATERIALS FOR TEACHING IN THE ELEMENTARY SCHOOLS Examines research on current procedures of teaching. Investigates strategies, materials, activities, and theory of teaching in the elementary schools.
ED	637	3 hrs.	ADVANCED MEDIA TECHNOLOGY/COMPUTER APPLICATION Studies selection, utilization, production and evaluation of audio visual materials and equipment. Stresses computer literacy.
ED	695	3 hrs.	ADVANCED SEMINAR IN ELEMENTARY EDUCATION Surveys problems encountered by students and teachers in elementary education. Emphasizes current research and discussion of innovations and topics of interest in education.
ED	698	3 hrs.	THESIS I This course is designed to introduce students to the research prospectus and thesis/Dissertation writing process with the focus on both the rhetorical framework and grammatical patterns germane to these tasks as well as the purpose of the research project. This course includes, but is not limited to: Producing literature reviews, annotated bibliographies with the concentration on conventions of style and format of specific academic discipline; synthesizing and relating verbal and nonverbal materials; analyzing research data; and drawing conclusions. The intent of the course is to provide training for the development of self-editing, proofreading skills, and individualized assistance to students with the drafting phase of documents.
ED	699	6 hrs.	THESIS II Requires students enrolled in the Elementary Education Specialist Program to develop, design, and carry to completion a thesis or special research project. Pre-requisite: ED 629 and ED 627.

Psychology (Education Specialist Courses) (PH)

PH	604	3 hrs.	EDUCATIONAL AND PSYCHOLOGICAL STATISTICS This course focuses on analysis and interpretation of statistical data encountered on psychology and education using selected statistical techniques.
PH	614	3 hrs.	LEARNING THEORIES This advanced course helps students acquire information and knowledge concerning the major traits, dynamics, and learning. Emphasis is placed on understanding theories of personality development and learning as they relate to behavior in various domains, including social learning and cognition as they influence attachment, dependency, aggression, sex typing, moral development, and general social competence.
PH	690	3 hrs.	PSYCHOLOGICAL FOUNDATIONS OF EDUCATION This course examines the application of psychological concepts, principles and theories in dealing with educational problems as relate to the basic tenants of psychological theories and major contributors to the fields of education and psychology.

DEPARTMENT OF HEALTH, PHYSICAL EDUCATION AND RECREATION

Johnny Thomas, Ed.D., Department Chair
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Degree

Master of Science in Secondary Education: Athletic Administration and Coaching (Teaching)
Master of Science in Secondary Education: Athletic Administration and Coaching (Non-Teaching)
Master of Science in Secondary Education: Physical Education

Requirement for Admission

Standard Educator License
Standard GRE Test
Standard Educator License

GRADUATE FACULTY

Johnny Thomas, Chairperson, Department of Health, Physical Education, and Recreation and Assistant Professor of Health, Physical Education, and Recreation, B.S., Alcorn State University; M.S., University of Tennessee; Ed.D., University of Missouri at Columbia

ENDORSEMENT AREA: ATHLETIC ADMINISTRATION AND COACHING (TEACHING)

Program Description

The Department of Health, Physical Education, and Recreation offers the **Master of Science in Secondary Education with an emphasis in Athletic Administration and Coaching**. The basis of this degree program is a disciplinary curriculum that requires graduates to engage in a profound, comprehensive exploration, examination, and study of the various administrative and coaching models, theories, approaches, techniques, and methodologies for their effective management, administration, and leadership of an athletic and/or a sport programs on any athletic hierarchy.

The department's objectives for **the Master of Science Degree in Secondary Education with an emphasis in Athletic Administration and Coaching – Standard Educator License** are as follow:

- ❖ To prepare graduates with comprehensive, diverse, relevant, and holistic managerial and operational knowledge and skills of athletic administration and coaching.
- ❖ To provide graduates with the different instructional strategies and techniques associated with athletic administration and coaching.
- ❖ To provide opportunities for graduates to learn various research theories and execute the most contemporary research approaches and applications supporting athletic administration and coaching.
- ❖ To increase the awareness of graduates of the importance of their acquiring sufficient knowledge of the anatomy and physiology, prevention, treatment, and rehabilitation of athletic injuries.

- ❖ To educate graduates so that they can be able to demonstrate competency and expertise in athletic administration and coaching, ranging from K – 12, the collegiate level, the private sector, and/or beyond.
- ❖ To promote and encourage graduates to be role models for student athletes whom they teach, coach, and mentor to show evidence to these athletes of the importance of obtaining an equivalent balance in achieving excellence in both scholastic and intercollegiate athletics and academics.
- ❖ To provide a curricular offering and graduate experience that cause graduates to continue to extend their academic pursuit to the doctoral degree and beyond.
- ❖ To provide graduates with a disciplinary experience that teaches them how to maximize both the athletic and academic performance of student athletes by linking both teaching and methodological strategies, technology, measurement and evaluation, and /or research with the overall disciplinary knowledge bases underlying athletic administration and coaching.
- ❖ To ensure that graduates are recipients of a qualitative and quantitative curricular offering so that they can demonstrate competency and expertise in teaching, coaching, service, and/or research related to athletic administration and coaching.

Course Requirements

Required Education Core Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses (15 hours)		Credits
PE 510	Care and Prevention of Athletic Injuries	3 hrs.
PE 511	Psychology of Sports	3 hrs.
PE 516	Management in Physical Education & Sports	3 hrs.
PE 521	Scientific Principles of Coaching	3 hrs.
PE 545	Trends, Issues, Challenges in Athletics/Sports	3 hrs.
Electives (6 hours)		Credits
PE 523	Theories & Concepts of Coaching	3 hrs.
PE 527	Measurement and Evaluation of Physical Education	3 hrs.
PE 540	Independent Research (Athletic Administration or Coaching)	3 hrs.
PE 541	Sociology of Sports	3 hrs.
PE 543	Philosophy of Sports	3 hrs.
PE 547	Historical Perspective of Physical Education and Sports	3 hrs.
TOTAL		33 hrs.

ENDORSEMENT AREA: ATHLETIC ADMINISTRATION AND COACHING (NON-TEACHING)

Program Description

The Department of Health, Physical Education, and Recreation offers the **Master of Science in Secondary Education with an emphasis in Athletic Administration and Coaching (Non-Teaching)**. The basis of this degree program is a disciplinary curriculum that requires graduates to engage in a profound, comprehensive exploration, examination, and study of the various administrative and coaching models, theories, approaches, techniques, and methodologies for their effective management, administration, and leadership of an athletic and/or a sport programs on any athletic hierarchy.

The department's objectives for **the Master of Science Degree in Education with an emphasis in Athletic Administration and Coaching (Non-Teaching License)** are as follow:

- ❖ To prepare graduates with comprehensive, diverse, relevant, and holistic managerial and operational knowledge and skills of athletic administration and coaching.
- ❖ To provide graduates with the different instructional strategies and techniques associated with athletic administration and coaching.
- ❖ To provide opportunities for graduates to learn various research theories and execute the most contemporary research approaches and applications supporting athletic administration and coaching.
- ❖ To increase the awareness of graduates of the importance of their acquiring sufficient knowledge of the anatomy and physiology, prevention, treatment, and rehabilitation of athletic injuries.
- ❖ To educate graduates so that they can be able to demonstrate competency and expertise in athletic administration and coaching, ranging from K – 12, the collegiate level, the private sector, and/or beyond.
- ❖ To promote and encourage graduates to be role models for student athletes whom they teach, coach, and mentor to show evidence to these athletes of the importance of obtaining an equivalent balance in achieving excellence in both scholastic and intercollegiate athletics and academics.
- ❖ To provide a curricular offering and graduate experience that cause graduates to continue to extend their academic pursuit to the doctoral degree and beyond.
- ❖ To provide graduates with a disciplinary experience that teaches them how to maximize both the athletic and academic performance of student athletes by linking both teaching and methodological strategies, technology, measurement and evaluation, and /or research with the overall disciplinary knowledge bases underlying athletic administration and coaching.
- ❖ To ensure that graduates are recipients of a qualitative and quantitative curricular offering so that they can demonstrate competency and expertise in teaching, coaching, service, and/or research related to athletic administration and coaching.

Course Requirements

Required Education Core Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses (15 hours)		Credits
PE 510	Care and Prevention of Athletic Injuries	3 hrs.
PE 511	Psychology of Sports	3 hrs.
PE 516	Management in Physical Education & Sports	3 hrs.
PE 521	Scientific Principles of Coaching	3 hrs.
PE 545	Trends, Issues, Challenges in Athletics/Sports	3 hrs.
Electives (6 hours)		Credits
PE 523	Theories & Concepts of Coaching	3 hrs.
PE 541	Sociology of Sports	3 hrs.
PE 543	Philosophy of Sports	3 hrs.
TOTAL		33 hrs.

Athletic Administration and Coaching Course Descriptions (PE)

PE	510	3 hrs.	<p>CARE AND PREVENTION OF ATHLETIC INJURIES</p> <p>This course examines the general principles of the care and prevention of athletic injuries, injuries to the musculoskeletal tissues, the mechanism and etiology of injuries, the protective equipment of the care and prevention of athletic injuries, and the principles of treatment. Further investigation is on the care, prevention, rehabilitation, and injuries at the joints that comprise the human body, and special emphasis of study is on children and adolescents, environmental problems, specialized activities, general risk factors, and training and exercising.</p>
PE	511	3 hrs.	<p>PSYCHOLOGY OF SPORTS</p> <p>The course provides principles and scientific methods from psychology to study human behavior in sports. It helps coaches to develop and apply effective skills and strategies that will enhance their athletes' performance and to improve their athletes' mental game. Achievement motivation, regulation of anxiety, self-confidence, rehabilitation, adherence, cohesion, and leadership are among many of the topics subjected to study.</p>
PE	515	3 hrs.	<p>PROBLEMS IN CONTENT AND METHOD IN HEALTH EDUCATION</p> <p>This course covers problems in the content, method, and instruction of health education at various levels, particularly in the school and in the community. It also covers the suitability of content and method as determined by need, interest, and ability.</p>

PE	516	3 hrs.	MANAGEMENT/SUPERVISION IN PHYSICAL EDUCATION The course examines the philosophies, goals, objectives, and purposes of physical education; it critiques the philosophic foundation of physical education and professional organizations; it discusses the different concepts of physical fitness, styles of leadership, approaches of facility management, and supervising functions of personnel; and it focuses on the different features of program development, the budgetary process, and on the variety of techniques underlying measurement and evaluation of an organization.
PE	517	3 hrs.	METHODS AND MATERIALS OF PHYSICAL EDUCATION This course explores the history of physical education, the purpose, benefits, and philosophy of physical education, and the duties and challenges of physical education. Additional examination is on organization and instruction, lesson planning and outcomes, and careers in physical education.
PE	521	3 hrs.	SCIENTIFIC PRINCIPLES OF COACHING IN PHYSICAL EDUCATION AND SPORTS The course focuses on the coach's responsibility and relations, the coach and the student, the coach and the community, the coach and the news media, the coach and organized athletics, and the coach and the inter-scholastic athletic program. Athletic equipment, the coach and the sports facilities, liability for injuries in athletics, safety in sports, athletic facilities-layout and maintenance, athletics for girls, and trends in high school athletics are major emphases of discussion in the course.
PE	523	3 hrs.	THEORIES & CONCEPTS OF COACHING The course investigates what is coaching about, how coaches do behave, coaching as an interpersonal relationship, and coaching in its social context. It investigates, additionally, motivations and recruitment in sports coaching, sports coaching and social issues, coaching styles, sports specificity in coaching practice, and the uniqueness of the coaching role.
PE	524	3 hrs.	ORGANIZATION OF SAFETY EDUCATION The course reveals the organization, design, and development in effective safety and health training, human behavior and the health and safety trainer, the training materials in effective safety and health training, and training over the generation gap.
PE	527	3 hrs.	MEASUREMENT AND EVALUATION OF PHYSICAL EDUCATION The course introduces measurement and evaluation, links program development with measurement and evaluation, discusses basic statistics and criteria for test selection, and reveals alternative assessment and how to measure health-related physical fitness and physical activity. Also, the course discusses how to measure psychomotor skills, cognitive knowledge, and affective behavior; how to grade, use self-evaluation to improve instruction; and how to use measurement and evaluation in activity-based settings and in non-school settings.
PE	538	3 hrs.	PHYSIOLOGY OF MUSCULAR ACTIVITY The course aims to discuss physiology of exercise in the US (its past and future), the control of the internal, bioenergetics, exercise metabolism, hormonal responses to exercise, hormonal control of substrate mobilization during exercise, measure of work, power, and energy expenditure, and the nervous system; structure and control of movement. It also aims to explore skeletal muscle: structure and function, circulatory adaptations to exercise, respiration during

exercise, and acid base balance during exercise. Other aims of the course are to discuss temperature regulation, the physiology of health and fitness, exercise for the special populations, body composition and nutrition for health, and the physiology and training for performance.

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| PE | 539 | 3 hrs. | FOUNDATIONS AND PRINCIPLES OF PHYSICAL EDUCATION
The course examines the nature and scope of physical education, exercise science, and sports, reveals the foundations of physical education, exercise science, and sports, and discusses the careers and professional considerations in physical education, exercise science, and sports. Sports careers in management, media, performance, and other areas; issues, challenges, and the future of physical education, exercise science, and sports are also the focus of the course. |
| PE | 540 | 3 hrs. | INDEPENDENT RESEARCH
The course permits the student to explore, investigate, and research any area of his or her interest in health, physical education, or athletic administration and coaching. It provides the knowledge base for the student to have a fundamental foundation in designing and conducting research in education or in his or her area of interest. Particular emphases of the course are on research methods and designs and data analysis and results interpretation. |
| PE | 541 | 3 hrs. | SOCIOLOGY OF SPORTS
The course examines the role of sports in society, the impact of sports on participants in sports, and the relationship between sports and other societal institutions. It investigates the influence of gender, race, and socioeconomic status on participation in sports and physical activity and explores drug abuse by athletes, aggression and violence, the effect of the media on sports, and player-coach relationships. |
| PE | 542 | 3 hrs. | PHILOSOPHY OF SPORTS
The course examines sports from many different perspectives, such as the nature of reality, the structure of knowledge in sports, ethical and moral questions, and the aesthetics of movement. It critically examines the meaning of sports for all participants involved and enjoins students to question the beliefs and assumptions about sports. |
| PE | 545 | 3 hrs. | TRENDS, ISSUES, CHALLENGES IN ATHLETICS
The course focuses on salient issues, challenges and trends confronting athletics/sports. It explores issues and challenges such as gambling, drug abuse, fan and player violence, scandals, parental conduct, and an overemphasis on winning within sports that exists from professional athletics to youth sports. Examining technological, societal, medical, training, current, and future trends in athletics/sports is also the focus of this course. |
| PE | 547 | 3 hrs. | HISTORICAL PERSPECTIVE OF PHYSICAL EDUCATION AND SPORTS
The course critically investigates the past with a focus on events, people, and trends that influenced the development and direction of physical education and sports. It explores who, what, when, where, how, and why of physical education and sports to give students a better understanding of the past, the present, and the future of physical education and sports. |

PE	551	3 hrs.	<p>TRENDS, ISSUES, & CHALLENGES IN PHYSICAL EDUCATION</p> <p>The course examines issues related to increased call for accountability, dwindling economic resources, and the insufficient parental, administrative, and teacher support for elementary and secondary physical education. The integrity of physical education as a school subject, the status and nature of school physical education, promoting and providing daily, high-quality physical education at the elementary and secondary levels, working to achieve the nation's health objectives and encouraging lifespan involvement for all people are some challenges subjected to investigation in the course. Trends in health promotion and disease prevention, health care reform, education, technology, demographics, and physical activity and fitness are also topics of the contents of the course.</p>
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ENDORSEMENT AREA: PHYSICAL EDUCATION

Program Description

The Department of Health, Physical Education, and Recreation offers the **Master of Science in Secondary Education with an emphasis in Physical Education**. The degree program provides an interestingly and a rigorously diverse contemporary curricular offering that excites majors to engage studiously in a painstaking and an investigating inquisition and a research endeavor of the advanced theoretical, practical, experiential, and empirical knowledge prevalent in Physical Education. Additionally, majors graduating with this degree satisfy the requirement to earn the state's "AA" certification, which qualifies them to teach health, and physical education from K through 12 in the state of Mississippi.

The department's objectives for **the Master of Science in Secondary Education with an emphasis in Physical Education** are as follow:

- ❖ To provide instruction, methodology, and technology and to require research undertakings, oral expression, and written critical or subjective thinking projects to prepare graduates for further advancement and success in higher education and in the world of work in Health, and Physical education and/or related fields.
- ❖ To promote vehemently the intellectual and collaborative engagement in teaching, research, and service so that graduates can contribute in addressing, examining, ameliorating, and resolving the threatening health and wellness and disease problems prevalent in the world.
- ❖ To instill in and to promote and to encourage graduates to possess a persuasive, genuine spirit and unwavering responsibility for providing extensive scholarship, diverse pedagogy, altruistic leadership, equitable empowerment, and righteous mentoring to those who come under their instruction, advisement, collaboration, guidance, and/or supervision.
- ❖ To be in the forefront in presenting to graduates the most reliable, valid, advanced, and contemporary events, issues, trends, and challenges confronting Physical Education.
- ❖ To nurture graduates in their preparation to be competent, competitive, and covetous physical educators as they vie against others physical educators in the world of graduate, teaching, and/or professional position.

Course Requirements

Required Education Core Courses (12 hours)		Credits
ED 512	Foundations of American Research	3 hrs.
ED 514	Methods of Educational Research	3 hrs.
PH 513	Advanced Educational Psychology	3 hrs.
ED 533	Curriculum (Methods) Development	3 hrs.
Required Courses (15 hours)		Credits
PE 516	Management in Physical Education & Sports	3 hrs.
PE 538	Physiology of Muscular Activity	3 hrs.
PE 539	Foundations and Principles of Physical Education	3 hrs.
PE 517	Methods and Materials of Physical Education	3 hrs.
PE 551	Trends, Issues, & Challenges in Physical Education	3 hrs.
Electives (6 hours)		Credits
PE 515	Problems in Content and Methods in Health Education	3 hrs.
PE 524	Organization of Health and Safety Education	3 hrs.
PE 527	Measurement and Evaluation of Physical Education	3 hrs.
PE 540	Independent Research (Health or Physical Education)	3 hrs.
PE 547	Historical Perspective of Physical Education and Sports	3 hrs.
TOTAL		33 hrs.

Physical Education Course Descriptions (PE)

PE	510	3 hrs.	<p>CARE AND PREVENTION OF ATHLETIC INJURIES</p> <p>This course examines the general principles of the care and prevention of athletic injuries, injuries to the musculoskeletal tissues, the mechanism and etiology of injuries, the protective equipment of the care and prevention of athletic injuries, and the principles of treatment. Further investigation is on the care, prevention, rehabilitation, and injuries at the joints that comprise the human body, and special emphasis of study is on children and adolescents, environmental problems, specialized activities, general risk factors, and training and exercising.</p>
PE	511	3 hrs.	<p>PSYCHOLOGY OF SPORTS</p> <p>The course provides principles and scientific methods from psychology to study human behavior in sports. It helps coaches to develop and apply effective skills and strategies that will enhance their athletes' performance and to improve their athletes' mental game. Achievement motivation, regulation of anxiety, self-confidence, rehabilitation, adherence, cohesion, and leadership are among many of the topics subjected to study.</p>
PE	515	3 hrs.	<p>PROBLEMS IN CONTENT AND METHOD IN HEALTH EDUCATION</p> <p>This course covers problems in the content, method, and instruction of health education at various levels, particularly in the school and in the community. It also covers the suitability of content and method as determined by need, interest, and ability.</p>

PE	516	3 hrs.	<p>MANAGEMENT/SUPERVISION IN PHYSICAL EDUCATION</p> <p>The course examines the philosophies, goals, objectives, and purposes of physical education; it critiques the philosophic foundation of physical education and professional organizations; it discusses the different concepts of physical fitness, styles of leadership, approaches of facility management, and supervising functions of personnel; and it focuses on the different features of program development, the budgetary process, and on the variety of techniques underlying measurement and evaluation of an organization.</p>
PE	517	3 hrs.	<p>METHODS AND MATERIALS OF PHYSICAL EDUCATION</p> <p>This course explores the history of physical education, the purpose, benefits, and philosophy of physical education, and the duties and challenges of physical education. Additional examination is on organization and instruction, lesson planning and outcomes, and careers in physical education.</p>
PE	521	3 hrs.	<p>SCIENTIFIC PRINCIPLES OF COACHING IN PHYSICAL EDUCATION AND SPORTS</p> <p>The course focuses on the coach's responsibility and relations, the coach and the student, the coach and the community, the coach and the news media, the coach and organized athletics, and the coach and the inter-scholastic athletic program. Athletic equipment, the coach and the sports facilities, liability for injuries in athletics, safety in sports, athletic facilities-layout and maintenance, athletics for girls, and trends in high school athletics are major emphases of discussion in the course.</p>
PE	523	3 hrs.	<p>THEORIES & CONCEPTS OF COACHING</p> <p>The course investigates what is coaching about, how coaches do behave, coaching as an interpersonal relationship, and coaching in its social context. It investigates, additionally, motivations and recruitment in sports coaching, sports coaching and social issues, coaching styles, sports specificity in coaching practice, and the uniqueness of the coaching role.</p>
PE	524	3 hrs.	<p>ORGANIZATION OF SAFETY EDUCATION</p> <p>The course reveals the organization, design, and development in effective safety and health training, human behavior and the health and safety trainer, the training materials in effective safety and health training, and training over the generation gap.</p>
PE	527	3 hrs.	<p>MEASUREMENT AND EVALUATION OF PHYSICAL EDUCATION</p> <p>The course introduces measurement and evaluation, links program development with measurement and evaluation, discusses basic statistics and criteria for test selection, and reveals alternative assessment and how to measure health-related physical fitness and physical activity. Also, the course discusses how to measure psychomotor skills, cognitive knowledge, and affective behavior; how to grade, use self-evaluation to improve instruction; and how to use measurement and evaluation in activity-based settings and in non-school settings.</p>

PE	538	3 hrs.	PHYSIOLOGY OF MUSCULAR ACTIVITY The course aims to discuss physiology of exercise in the US (its past and future), the control of the internal, bioenergetics, exercise metabolism, hormonal responses to exercise, hormonal control of substrate mobilization during exercise, measure of work, power, and energy expenditure, and the nervous system; structure and control of movement. It also aims to explore skeletal muscle: structure and function, circulatory adaptations to exercise, respiration during exercise, and acid base balance during exercise. Other aims of the course are to discuss temperature regulation, the physiology of health and fitness, exercise for the special populations, body composition and nutrition for health, and the physiology and training for performance.
PE	539	3 hrs.	FOUNDATIONS AND PRINCIPLES OF PHYSICAL EDUCATION The course examines the nature and scope of physical education, exercise science, and sports, reveals the foundations of physical education, exercise science, and sports, and discusses the careers and professional considerations in physical education, exercise science, and sports. Sports careers in management, media, performance, and other areas; issues, challenges, and the future of physical education, exercise science, and sports are also the focus of the course.
PE	540	3 hrs.	INDEPENDENT RESEARCH The course permits the student to explore, investigate, and research any area of his or her interest in health, physical education, or athletic administration and coaching. It provides the knowledge base for the student to have a fundamental foundation in designing and conducting research in education or in his or her area of interest. Particular emphases of the course are on research methods and designs and data analysis and results interpretation.
PE	541	3 hrs.	SOCIOLOGY OF SPORTS The course examines the role of sports in society, the impact of sports on participants in sports, and the relationship between sports and other societal institutions. It investigates the influence of gender, race, and socioeconomic status on participation in sports and physical activity and explores drug abuse by athletes, aggression and violence, the effect of the media on sports, and player-coach relationships.
PE	543	3 hrs.	PHILOSOPHY OF SPORTS The course examines sports from many different perspectives, such as the nature of reality, the structure of knowledge in sports, ethical and moral questions, and the aesthetics of movement. It critically examines the meaning of sports for all participants involved and enjoins students to question the beliefs and assumptions about sports.
PE	545	3 hrs.	TRENDS, ISSUES, CHALLENGES IN ATHLETICS The course focuses on salient issues, challenges and trends confronting athletics/sports. It explores issues and challenges such as gambling, drug abuse, fan and player violence, scandals, parental conduct, and an overemphasis on winning within sports that exists from professional athletics to youth sports. Examining technological, societal, medical, training, current, and future trends in athletics/sports is also the focus of this course.

PE	547	3 hrs.	HISTORICAL PERSPECTIVE OF PHYSICAL EDUCATION AND SPORTS The course critically investigates the past with a focus on events, people, and trends that influenced the development and direction of physical education and sports. It explores who, what, when, where, how, and why of physical education and sports to give students a better understanding of the past, the present, and the future of physical education and sports.
PE	551	3 hrs.	TRENDS, ISSUES, & CHALLENGES IN PHYSICAL EDUCATION The course examines issues related to increased call for accountability, dwindling economic resources, and the insufficient parental, administrative, and teacher support for elementary and secondary physical education. The integrity of physical education as a school subject, the status and nature of school physical education, promoting and providing daily, high-quality physical education at the elementary and secondary levels, working to achieve the nation's health objectives and encouraging lifespan involvement for all people are some challenges subjected to investigation in the course. Trends in health promotion and disease prevention, health care reform, education, technology, demographics, and physical activity and fitness are also topics of the contents of the course.

SCHOOL OF BUSINESS



"The superior man is modest in his speech, but excels in his actions."

SCHOOL OF BUSINESS

Donna Williams, Ph.D., Interim Dean
School of Business Complex
9 Campus Drive
Natchez, MS
601-304- 4319 FAX 601-304-4350

Degree

Master of Business Administration: General Business
 Master of Business Administration: Gaming Management
 Master of Business Administration: Hospitality Management

Required Admission Test

GMAT or General GRE
 GMAT or General GRE
 GMAT or General GRE

GRADUATE FACULTY

Akash Dania, Director, Graduate Business Programs and MBA Programs, Associate Professor of Finance, B.A., University of Delhi; M.S., University of Texas-Pan American; Ph.D., University of Texas-Pan American
Pj Forrest, Associate Professor of Marketing, B.S., Mississippi University for Women; M.S., Mississippi University for Women; M.B.A., Mississippi State University; D.B.A., Mississippi State University
Kimball Marshall, Professor of Marketing, B.A., University of St. Thomas; M.B.A., Washington University; Ph.D., University of Florida
Diaeldin Osman, Assistant Professor of Accounting, B.S., Stillman College; M.B.A., Jackson State University; Ph.D., Griffith University
William Piper, Professor of Marketing, B.S., Eastern Illinois University; M.B.A., Eastern Illinois University; D.B.A., Mississippi State University
Benedict Udemgba, Associate Professor of Business, B.S., Southern University; M.B.A., Prairie View A&M University; Ph.D., Jackson State University
Donna Williams, Interim Dean and Assistant Professor of Business, B.S., University of Southern Mississippi; M.B.A., University of Southern Mississippi; Ph.D., Jackson State University

DEPARTMENT OF GRADUATE BUSINESS PROGRAMS

Akash Dania, Ph.D., Program Director
9 Campus Dr. Graduate Business Programs Building
Phone: 601.304.4388 | Fax: 601.304.4350

MASTER OF BUSINESS ADMINISTRATION

Program Description

The School of Business of Alcorn State University offers the Master of Business Administration (MBA) from its Natchez Campus. The Program currently offers concentrations in areas of: General Business, Gaming Management, and Hospitality Management.

The MBA Program is designed to prepare students for leadership roles in today's competitive global business environment. The program provides the opportunity to obtain advanced training in business administration, contributing to the advancement of knowledge, and, in keeping with the overall mission of Alcorn State University, assists in the preparation of global leaders who will be equipped to play an important role in the future development of the state, nation and global economies.

Students who are seeking the MBA degree must hold a bachelor's degree or its equivalent from an accredited institution. Admission is open to individuals with a baccalaureate degree in any discipline including agricultural sciences, education, engineering, healthcare, arts, sciences, culinary and hospitality, and other fields, as well as business. The MBA program is designed for both part-time and full-time students. Students may be admitted to the MBA program and may begin course work at the beginning of any term-fall, spring, or summer.

ALCORN SCHOOL OF BUSINESS MISSION STATEMENT

Alcorn School of Business strives to prepare graduates who will be well-rounded future leaders of high character who will be competitive in the global marketplace of 21st Century.

ALCORN SCHOOL OF BUSINESS MBA PROGRAM MISSION STATEMENT

The mission of the Alcorn State University MBA Program is to advance the knowledge and practice of accounting, finance, marketing, and management and to foster the intellectual and economic vitality of the community through reaching, research, and outreach.

ACCREDITATION

The Master of Business Administration Program including all of its concentrations are accredited by the:

Accreditation Council for Business Schools and Programs (ACBSP)
11520 West 119th St.
Overland Park, KS 66213
913.339.9356

GRADUATE FACULTY

Maintaining the quality of the MBA Program, all classes are delivered by qualified faculty. To qualify as graduate faculty in the School of Business, a faculty member must meet the minimum criteria expected of a faculty member in a master's level program as deemed appropriate by the School of Business in accordance with the expectations of maintaining accreditation. Current MBA program faculty:

ADMISSION REQUIREMENTS

Admission to the MBA Program is open to all students who have completed a baccalaureate degree from an accredited college or university. Students seeking admissions to this track of the MBA Program must have:

1. A bachelor's degree or equivalent from an accredited college or university.
2. A minimum cumulative grade point average (GPA) of 2.75 (on 4.0 scale) for all undergraduate work.
3. GMAT exam score of 350.
4. Applicants may take the GRE exam instead of the GMAT exam.
A minimum score of 275 (Verbal Reasoning plus Quantitative Reasoning) is required for admission.

Applicant with managerial, supervisory or professional work experience may be considered for admission based on a weighted three-point criteria consisting of the undergraduate GPA, GMAT or GRE exam score, and number of managerial, supervisory or professional work experience*.

The following formula will be used:

- Undergraduate GPA X 200 + GMAT score + 100 X years of work experience \geq 950.

or

- Undergraduate GPA X 200 + GRE score (Verbal Reasoning plus Quantitative reasoning) + 100 X years of work experience \geq 875.

*Applicant to provide a recent resume and a letter of reference preferably from a supervisor detailing their work experience in managerial, supervisory or professional capacity. This letter is to state applicant's role as a manager, supervisor or a professional, specifically highlighting:

- Time spent in managerial, supervisory or professional capacity, and
- Discussion of job responsibilities of the applicant.

If the letter from the supervisor cannot be submitted, then the details of work should clearly be mentioned in the resume submitted with the application.

International Students:

- International students may apply and undertake the resident option of the MBA – General Business concentration.
- International students are not eligible to enroll in the MBA – 100% online concentrations. According to U.S. immigration regulations, F-1 and M-1 students cannot pursue online degrees. International students in other visa categories (i.e. H-4, L2 etc.) are exempt from this restriction.
- International students may be asked to submit other documents and health records during or after the admission process.

The GMAT exam or the GRE exam Exemption:

Applicants may be exempt from taking the GMAT exam or the GRE exam if the applicant:

- Holds a doctorate degree from an accredited university.
- Holds a Master's degree in business, hospitality, or related area of study with a GPA of 3.0 or above (on a 4.0 scale) from an accredited university.
- Has a minimum cumulative GPA of 2.75 (on a 4.0 scale) and a minimum score of 136 on the ETS-MFT exam.
- Has at least 4 years of work experience. Years of experience should be in managerial, supervisory or professional capacity.

Conditional Admission:

Applicants may be admitted conditionally to Graduate Studies under the following conditions:

- They do not meet the minimum GPA requirement of 2.75. An applicant with a GPA of less than minimum required may take MBA foundation courses to bring up the GPA.
- They have a GMAT score of less than 350 or a below par formula score or GRE score less than 275 and below par formula score. In which case they have to re-take the GMAT exam or the GRE exam and successfully meet the passing score or the formula score.
- They are required to take foundation courses.

Foundation (Leveling) Courses:

- **General Business concentration:** Candidate for this concentration is ideally someone who aspires to fit in a leadership/managerial role in today's globally connected business environment. The foundation core courses are designed to attract students from a variety of undergraduate backgrounds, and to prepare them in functional area knowledge of business discipline. All or part of the Foundation CORE courses may not be required for a student with prior equivalent course work at the undergraduate or graduate level if satisfactorily completed at a regionally accredited college or university, preferably one accredited by the ACBSP/AACSB, or through other means as approved by the MBA Admissions Committee.
- **Gaming Management/Hospitality Management concentration:** Candidate for these concentrations will ideally be someone who may be currently employed in a professional capacity in specialty focused industry and aspire to move to leadership role in these industry areas. These MBA concentrations are geared to providing expertise and content knowledge in accounting, finance, marketing, and management in relation to professional specialty areas. Therefore, these concentration options do not require foundation courses.

Graduate English Writing Proficiency:

- All students admitted to the MBA Program must satisfy Graduate English Writing Proficiency. English proficiency requirement should be met during the first semester of coursework. Currently the following applicants are exempt from this requirement:
 - Applicants who have scored 3.0 on the analytical writing section of the GMAT exam or the GRE exam.
 - Applicants who are holding a Doctorate degree from an accredited School.
 - Applicants who have already met the Graduate Writing Proficiency at Alcorn State University, such as while enrolled in another Master's Program at Alcorn State University.

Transfer Credits:

- A student is allowed to transfer a maximum of six semester hours (two courses) of graduate credit in which grades of "B" or better are earned. These courses must have been taken at an accredited graduate degree-granting institution. All credits to be transferred should be approved by the student's academic advisor and the Graduate Studies Office. Official transcripts of transfer credits must be on file at the University prior to acceptance of the transfer credits for approval. No courses taken by correspondence will be accepted.

HOW TO APPLY**Step 1: Graduate School Application:**

Use the electronic admission applications to apply to the Graduate School, apply for readmission or to change your current degree program.

Online application link: <http://selfserve.alcorn.edu/pls/prod11g/bwskalog.P DispLoginNon>

Step 2: Pay Application fees:

Pay an application fee of \$10.00 U.S. (money order). This fee applies to out-of-state (non-Mississippi) applicants only. Have the application fees sent to:

Office of Graduate Studies
Alcorn State University
1000 ASU Drive #689
Lorman, MS 39096-7500

Step 3: GMAT or GRE Admission Test (GMAT or GRE Test may be waived for some applicants – check for eligibility conditions listed in admissions requirements section):

Schedule an appointment to take the GMAT or GRE exam, and have the results sent to Graduate Studies. If you have recently taken a GMAT or GRE, simply send a copy of the exam score report to Graduate Studies.

Schedule your GMAT exam at:

<http://www.mba.com/>

Or, Schedule your GRE exam at:

<http://www.ets.org/gre/>

Have the GMAT exam or the GRE exam scores sent to:

Office of Graduate Studies
Alcorn State University
1000 ASU Drive #689
Lorman, MS 39096-7500

Step 4: Submit Transcripts:

Request that your official transcripts from all colleges and/or universities you have attended be directly sent to:

Office of Graduate Studies
Alcorn State University
1000 ASU Drive #689
Lorman, MS 39096-7500

Step 5: Submit Supplemental Materials:

Submit the following supplemental materials to Graduate Studies:

- Current Resume.
- Two Letters of Recommendation:
Two recommendations are required and should be submitted electronically by the reference to graduatestudies@alcorn.edu or mailed through the United States Postal Service, or hand-delivered in a sealed envelope. Access the suggested guidelines for writing a letter of recommendation. Use the link below to access the recommendation form format:
http://www.alcorn.edu/data/files/gallery/ContentGallery/Recommendation_Letter1.pdf

The supplemental materials can also be emailed to graduatestudies@alcorn.edu or mailed directly to:

Office of Graduate Studies
Alcorn State University
1000 ASU Drive #689
Lorman, MS 39096-7500

Note that letters of recommendation must be emailed by the reference to Graduate Studies. The letter is prohibited from being emailed from the applicant's email address.

Step 6: Applies only to International Students (other documents needed from International Students):

- Make an acceptable score on TOEFL or IELTS as required by Graduate Studies.
- Provide Documentation of Financial Support. For AY 2015-2016, the amount needed to show is: \$23,380. This amount may change yearly based on University assessed fees for Tuition. For the exact amount, please contact the Office of Graduate Studies.
- All transcripts from international colleges and universities to be accompanied by verification that the degree is equivalent to a B.S., B.A. or M.S. degree from a college or university in the United States. Applicants may select any National Association of Credential Evaluation Services (NACES) member to provide this service. (See NACES web site, www.naces.org for a list of NACES members.). International students successfully admitted to the MBA Program at Alcorn State University generally have their transcripts verified via: WES: <http://www.wes.org/> or ERES <http://www.eres.com/>. Credential evaluations must include a course-by-course evaluation at the undergraduate or graduate level. This is the only acceptable reporting format.

Note: The U.S. Immigration and Naturalization Service requires certification that ALL standards for admission have been met before the I-20 form is issued. International students are required to complete their admissions procedures at least 30 days prior to the term in which they expect to enter. Refer to details on I-20 and other guidelines on International Students available [online](#).

Note:

- Once an application packet is complete, the Graduate Studies Office will send an email to the applicant indicating all application materials have been received.
- The Admission decision process normally takes 10 business days from the time all materials are received at the Office of Graduate Studies.

Checking status of application:

- To check status of an application, contact:

Office of Graduate Studies
Alcorn State University
1000 ASU Drive #689
Lorman, MS 39096-7500
Telephone: 601.877.6122
Fax: 601.877.6995
graduatestudies@alcorn.edu

COMPLIANCE WITH ACADEMIC STANDARDS

Students in the MBA Program must comply with both the academic standards specific to the MBA Program and the general academic standards of Graduate Studies. Compliance relates to all aspects of the academic standards including the progression, retention, and graduation requirements. Students in the MBA Program must maintain a 3.0 GPA in the Required Core and Elective Courses.

For program completion, students must not accumulate more than six semester hours (2 graduate courses) of credit below B (3.0).

Should a student fail to maintain a 3.0 GPA in any semester, the student will be placed on an academic probation. If a 3.0 GPA is not obtained in the subsequent semester of course work, the student will be terminated from continued enrollment from the program.

Any student who has been terminated from Graduate School because of academic standards may submit an appeal to the Office of Graduate Studies as part of due process. An Appeals Committee will make the determination if the appeal is approved or denied for continuance. A detailed explanation for the poor academic record and stating reasons why he/she should be allowed to continue enrollment. If the appeal is granted, then the student must repeat the course(s) for which he/she was disqualified.

REQUIREMENTS TO GRADUATE

- **MBA – General Business:** Students must complete the 36 hours of graduate or professional core and elective courses with at least a 3.0 GPA. Students must not have more than two grades of “C” to complete the program.
- **MBA – Gaming Management/Hospitality Management:** Students must complete the 30 hours of graduate or professional core and elective courses with at least a 3.0 GPA. Students must not have more than two grades of “C” to complete the program.

THE MASTER OF BUSINESS ADMINISTRATION DEGREE CURRICULUM

MBA - General Business Concentration:

FOUNDATION (LEVELING) CORE

(27 Semester Hours)

The required Foundation CORE courses are designed to attract students from a variety of undergraduate backgrounds, not just business. Note that all or part of the Foundation CORE courses may be exempt for a student with prior equivalent course work at the undergraduate or graduate level if satisfactorily completed at a regionally accredited college or university, or through other means as approved by the MBA Admissions Committee.

AC	580	Survey of Accounting	3 Hours
BA	520	Survey of Economics	3 Hours
BA	540	Survey of Legal Environment and Ethics	3 Hours
FI	530	Survey of Finance	3 Hours
MG	510	Survey of Business Statistics	3 Hours
MG	541	Survey of Management	3 Hours
MG	542	Survey of Management Information Systems	3 Hours
MG	560	Survey of Quantitative Methods	3 Hours
MK	550	Survey of Marketing	3 Hours

FOUNDATION ELECTIVES*

BA	543	Graduate Business Internship I	1-3 Hours
BA	544	Graduate Business Internship II	1-3 Hours

*These courses have been designed for students who secure internship during their MBA and want to get credit for the same on their transcripts.

THE MBA DEGREE PROGRAM – GENERAL BUSINESS CONCENTRATION CURRICULUM

The MBA Degree Program – General Business consists of twelve (12) courses (36 semester hours) above the Foundation Core. Seven (7) are required courses, and five (5) are electives.

GRADUATE OR PROFESSIONAL REQUIRED CORE: (18 Semester Hours)

The seven (6) required graduate or professional core substantially extend and apply knowledge developed in the foundation core.

AC	680	Managerial Accounting Analysis	3 Hours
BA	620	Managerial Economics Analysis	3 Hours
FI	630	Financial Analysis and Management	3 Hours
MG	610	Quantitative Analysis	3 Hours
MG	640	Organizational Behavior and Development	3 Hours
MK	650	Marketing Analysis	3 Hours

REQUIRED CAPSTONE COURSE: (3 Semester Hours)

MG	690	Business Policy and Strategy	3 Hours
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GRADUATE OR PROFESSIONAL ELECTIVES: (15 Semester Hours)

Students may decide to focus in a particular academic area by selecting electives from one particular area of interest. (Note: No more than 9 elective hours can be taken in any one academic area.) Elective courses will be offered based on available faculty resources.

AC	682	Accounting Seminar	3 Hours
AC	685	Tax Planning for Management Decisions	3 Hours
AC	688	Financial Statement Analysis	3 Hours
AC	689	Special Topics in Accounting	3 Hours
BA	648	Business Research Methods	3 Hours
FI	632	Financial Institutions	3 Hours
FI	634	Financial Investment Analysis and Policy	3 Hours
FI	636	International Finance	3 Hours
FI	637	Futures, Options and Other Derivative Securities	3 Hours
FI	638	Bank Management	3 Hours
FI	639	Special Topics in Finance	3 Hours
MG	641	Human Resource Management	3 Hours
MG	644	Production/Operations Analysis	3 Hours
MG	646	International Management	3 Hours
MG	648	Staffing Organization	3 Hours
MG	649	Special Topics in Management	3 Hours
MG	692	Entrepreneurship	3 Hours
MK	654	Consumer Behavior	3 Hours
MK	656	International Marketing	3 Hours

MK	658	Marketing Seminar	3 Hours
MK	659	Special Topics in Marketing	3 Hours

MBA – Gaming Management Concentration/ Hospitality Management Concentration:

To complete the MBA Program's concentration in Gaming Management or Hospitality Management, a student must have completed 30 credit-hours of course work. The courses will be offered in completely online (100% online) eight weeks' terms and a student if approved could take 6 graduate credit hours per eight weeks' term.

THE MBA DEGREE PROGRAM – GAMING MANAGEMENT/HOSPITALITY MANAGEMENT CONCENTRATION CURRICULUM

This option consists of a 15 credit-hour Core, 3 credit-hour Capstone, and 12 credit-hour Electives (based on specialization area). These specialized options of the Alcorn State University's MBA Program geared for full-time or part-time students currently employed in an executive or professional capacity; for former members of the industry desiring to enhance their competencies and skills to re-enter the industry; and for recent graduates with undergraduate degree in related field, therefore there are no prerequisite courses required.

GRADUATE OR PROFESSIONAL REQUIRED CORE (15 Semester Hours)

The five (5) required graduate or professional core courses substantially provide knowledge in core functional Business areas.

AC	680	Managerial Accounting Analysis	3 Hours
BA	620	Managerial Economics Analysis	3 Hours
FI	630	Financial Analysis and Management	3 Hours
MG	640	Organizational Behavior and Development	3 Hours
MK	650	Marketing Analysis	3 Hours

CAPSTONE COURSE (3 Semester Hours)

BA	690	Business Policy and Strategy	3 Hours
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GRADUATE OR PROFESSIONAL ELECTIVES (12 Semester Hours)

The four (4) required graduate or professional elective courses provide knowledge in professional specialty areas. Choice of professional electives is based on specialty area.

CONCENTRATION – HOSPITALITY MANAGEMENT*

Complete at least four courses from the following electives:

MHG	642	Foundations of Hospitality Industry	3 Hours
MHG	635	Hospitality Revenue Management	3 Hours
MHG	647	Change Management	3 Hours
MHG	670	Legal, Regulatory, and Ethical Issues in the Hospitality and Gaming Industry	3 Hours
MHG	687	Financial and Managerial Accounting for the Hospitality and Gaming Industry	3 Hours
MHG	614	Principles of Hotel Management	3 Hours

*Other electives for the specialty area to be added based on faculty resources, student interest, business advisory board recommendations, and specialty area and program needs.

CONCENTRATION – GAMING MANAGEMENT*

Complete at least four courses from the following electives:

MHG	611	Casino Operations	3 Hours
MHG	612	Casino and Gaming Management	3 Hours
MHG	613	Critical Issues in Gaming Industry	3 Hours
MHG	647	Change Management	3 Hours
MHG	670	Legal, Regulatory, and Ethical Issues in Hospitality and Gaming Industry	3 Hours
MHG	687	Financial and Managerial Accounting for the Hospitality and Gaming Industry	3 Hours

*Other electives for the specialty area to be added based on faculty resources, student interest, business advisory board recommendations, and specialty area and program needs.

MAJOR FIELD EXAM FOR MBA PROGRAM

The Office of Graduate Studies requires each graduate to successfully pass an exit exam prior to graduation. The MBA Program administers the Major Field Exit Exam to MBA students to satisfy this requirement. Results are submitted to the Office of Graduate Studies to document compliance. These are mostly multiple choice type questions with a few short cases. The five (5) factors assessed by the exit exam are:

1. Marketing
2. Management
3. Finance
4. Managerial Accounting
5. Integrated Strategy

Important Note: While the exam provides the MBA Programs with a means of meeting the University's graduation requirements, the major purpose of this exam is to assist the Graduate Business Program in the assessment and accreditation purposes of the MBA Program.

Students should contact the faculty members responsible for each of the CORE professional courses for information about the Exit Exam.

Graduate or Professional Core Course Descriptions

AC	680	3 hrs.	MANAGERIAL ACCOUNTING ANALYSIS This course provides students with the opportunity to understand that managerial accounting is a cross-functional discipline providing accounting information useful to all management areas. A second objective is to acquaint students with the basic thought that managerial accounting information is necessary for all types of business (manufacturing, services, retail, wholesale, and not-for-profits, regardless of size), and includes both domestic and global organizations.
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BA	620	3 hrs.	<p>MANAGERIAL ECONOMIC ANALYSIS</p> <p>An application of microeconomics analysis to the business decision-making process. Emphasis is on the theory of consumer behavior, the production and cost decisions of the individual firm, and the influence of monopolistic elements on the formulation of executive business decisions.</p>
FI	630	3 hrs.	<p>FINANCIAL ANALYSIS AND MANAGEMENT</p> <p>This course relates to the financial management of business enterprises with emphasis on asset management and financing. The valuation of enterprises and financial assets are discussed along with financial markets. Students will be exposed to fundamental theories in financial management and financial markets, application of these theories in business practice, and limitations and difficulties of financial theories in solving real-world problems. The course is designed to develop skills found in competent financial managers.</p>
MG	610	3 hrs.	<p>QUANTITATIVE ANALYSIS</p> <p>This course provides a feeling for the variety and power of quantitative and management science/operation research tools and enables students to recognize on-the-job situations in which quantitative techniques can be applied to successfully remedy problem situations. The topics covered include probability concepts, inventory decisions, linear programming, transportation problems, and project planning with PERT, decision analysis, waiting lines, and simulation. Prerequisite: MG 560 or departmental waiver.</p>
MG	640	3 hrs.	<p>ORGANIZATIONAL BEHAVIOR AND DEVELOPMENT</p> <p>This course examines behavioral concepts, techniques, and applications for managing employees in all types of organizations, issues of organizational structure, job qualifications, job satisfaction and commitment, teams and teamwork, and leadership are addressed.</p>
MK	650	3 hrs.	<p>MARKETING ANALYSIS</p> <p>Focuses on the analysis of markets, marketing expenditures, effectiveness of marketing programs, estimating customer value, regency, frequency and monetary analysis, measures of promotions and advertising effectiveness, measures of distribution effectiveness, and other key marketing metrics critical to the effective management of marketing programs.</p>
MG	690	3 hrs.	<p>BUSINESS POLICY AND STRATEGY (CAPSTONE COURSE)</p> <p>Focuses on top management perspectives, integrated thinking and complex problem solving. This course should be taken after all core courses have been completed and toward the end of the MBA program. Prerequisite: This is a capstone course and is to be taken in the last semester of studies or with departmental approval.</p>

Electives for Concentration – General Business

AC	682	3 hrs.	<p>ACCOUNTING SEMINAR</p> <p>Designed primarily for accounting undergraduates seeking to meet the 150-hour requirement for taking the CPA exam. Current selected accounting topics are covered with extensive student involvement.</p>
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AC	685	3 hrs.	TAX PLANNING FOR MANAGEMENT DECISIONS Provides students with a conceptual overview of the basic tax structure encountered by business organizations. Students who are managers or potential managers gain competency in recognizing business transactions that may have tax consequences. The emphasis is on the Federal Income Tax, but business firms also face multi-jurisdictional tax issues. This course includes a research component to allow students to further develop written and oral communication skills. Pre-requisite: AC 680 or consent of Instructor.
AC	688	3 hrs.	FINANCIAL STATEMENT ANALYSIS Examines the components of financial statements from a user's perspective with emphasis on assessment of the impact of accounting choices on investment and lending decisions. Recommended pre-requisites: AC 580 and Intermediate Accounting.
AC	689	3 hrs.	SPECIAL TOPICS IN ACCOUNTING Examines current advanced topics of interest in professional accounting. Topics selected are not covered elsewhere in the MBA curriculum.
BA	648	3 hrs.	BUSINESS RESEARCH METHODS A study of a variety of research methods applicable to all business disciplines with an emphasis on developing skills in acquiring data and interpreting and utilizing data as information to guide managerial decision making. Emphasis is given to internal and external secondary data resources and appropriate uses of observation, survey, experimental, and quasi-experimental designs to address business issues. Pre-requisites: MK 550, MG 541.
FI	632	3 hrs.	FINANCIAL INSTITUTIONS Presents concepts and techniques related to the management of financial institutions such as banks, credit unions, etc. Topics include bank services, organization of the banking industry, analysis of bank financial statements, asset-liability management, hedging against interest rate fluctuations, raising funds, deposit creation, the Federal Reserve System, and laws and regulations governing the industry. Pre-requisite: FI 530 or equivalent.
FI	634	3 hrs.	FINANCIAL INVESTMENT ANALYSIS AND POLICY The objectives of this course are to provide students with an understanding of investment environments in the U.S. and international securities markets; knowledge of valuations of various investment instruments, including stocks, bonds, options, and futures; empirical behavior of security prices and the efficient market hypothesis; asset pricing theory; and analytical skills for portfolio management. Pre-requisite: FI 530 or equivalent.
FI	636	3 hrs.	INTERNATIONAL FINANCE Provides students with a basic understanding of international financial markets, banking, and financial decision-making in a global environment, as well as an understanding of contemporary events and market trends in finance, business, and multinational corporations. Pre-requisite: FI 530 or equivalent.

FI	637	3 hrs.	FUTURES, OPTIONS, AND OTHER DERIVATIVE SECURITIES This course deals with Futures, Options, Swaps, and other derivative securities. Student in this course will overview the structure of the derivative markets. Topics covered include principles and pricing of futures and forwards, writing and pricing options markets, swaps, and other interest rate agreements. Hedging risk using derivative securities, especially futures and options, is also covered. Pre-requisite: FI 630 or consent of instructor
FI	638	3 hrs.	BANK MANAGEMENT This course covers current issues related to management of a commercial bank. Specific topics covered include bank performance and evaluation, managing non-interest income and expenses, asset-liability management using GAP analysis and derivatives, liquidity positions and bank capital management, evaluation of commercial and consumer loans, and management of investment portfolios. Pre-requisite: FI 530 or equivalent.
FI	639	3 hrs.	SPECIAL TOPICS IN FINANCING Examines current advanced topics of interest in finance. Topics selected are not covered elsewhere in the MBA curriculum. Prerequisites: None.
MG	641	3 hrs.	HUMAN RESOURCE MANAGEMENT This course presents a broad introduction to the functions and strategic role of human resource management (HRM) by examining the impact of the organization's internal and external environment on the activities of personnel/human resource managers. Various personnel management concepts and practices such as HR planning, job analysis and design, employment law and labor relations, recruitment and selection, training and development, performance appraisals, compensation and benefits, and overall HR system design and management are explored. Selected readings and exercises are used to guide the student through the process of understanding the strategic role of human resource management. Pre-requisite: MG 541 or equivalent.
MG	644	3 hrs.	PRODUCTION/OPERATIONS ANALYSIS This course is designed to teach the student production/operations management tools including operations in a global market, designing production systems, planning for operations, and controlling the production process. Pre-requisite: MG 610.
MG	646	3 hrs.	INTERNATIONAL MANAGEMENT This course addresses the international dimensions of business including the importance of a global perspective, challenges of multinational companies, differences in political economies, foreign exchange markets, the international monetary system, cultural variations, regional economic integration, foreign direct investment, and strategies for entering foreign markets. Pre-requisites: MG 541 or MG 640.
MG	648	3 hrs.	STAFFING ORGANIZATIONS This course examines a comprehensive staffing model that focuses on how to achieve a successful person/job and person/organization match. Components of the Staffing Model include external influences (economic conditions, labor markets, unions, laws, and regulations), staffing support systems (staffing strategy and planning, job analysis, measurement), major staffing activities, (recruitment, selection, employment), and staffing system management. Selected

readings and exercises are used to guide the student through the process of understanding organizational staffing.

Pre-requisites: MG 541 or MG 640.

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| MG | 649 | 3 hrs. | SPECIAL TOPICS IN MANAGEMENT
Examines current advanced topics of interest in management. Topics selected are not covered elsewhere in the MBA curriculum. Prerequisites: None. |
| MG | 690 | 3 hrs. | BUSINESS POLICY AND STRATEGY
Capstone course. Focuses on top management perspectives, integrated thinking, and complex problem solving. This course should be taken after all core courses have been completed and toward the end of the MBA program.
Pre-requisite: Capstone Course to be taken in last semester of studies with department. |
| MG | 692 | 3 hrs. | ENTREPRENEURSHIP
A course studying the concepts and techniques of entrepreneurship and new business ventures. Issues include: Evaluating Opportunity, Developing the Concept, Assessing and Acquiring Resources, Acquiring a Going Concern, Managing the Growing Business, and Harvesting the Mature Business. The course uses cases and projects to demonstrate the concepts and techniques.
Pre-requisite: MG 541 or equivalent. |
| MK | 654 | 3 hrs. | CONSUMER BEHAVIOR
This course provides students with the knowledge and skills necessary to perform consumer analyses that can be used for understanding markets and developing effective marketing strategies. The instruction applies the author's "Wheel of Consumer Analysis," which is a tool to help the reader understand how consumer affect and cognition, consumer behavior, consumer environment, and marketing strategy interact in marketing. "The course explores the Wheel Model to provide a better basis for analyzing and understanding consumer behavior and can be used to guide the development of effective marketing strategies."
Pre-requisite: MK 650. |
| MK | 656 | 3 hrs. | INTERNATIONAL MARKETING
Focuses on the impact of the social, economic, political/legal, and technological environmental forces on businesses in international markets. Students learn the importance of culture and broaden their view of markets and competition in global markets. To capitalize on the globalization of markets, students must learn to market products and services with an international perspective. Pre-requisites: MK 550, FI 530, AC 580 or equivalent. |
| MK | 658 | 3 hrs. | MARKETING SEMINAR |
| MK | 659 | 3 hrs. | SPECIAL TOPICS IN MARKETING
This course is a survey of critical issues relating to a topic of significant concern to business firms at the time the course is offered. The course will involve extensive readings from the business and academic press to provide students with meaningful background and understanding of the issue being addressed. Students will be required to develop an extensive term project relating to recommendations for addressing the issue in real world business situations. Pre-requisites: None. |

Electives for Concentration – Hospitality Management

MHG	614	3 hrs.	<p>PRINCIPLES OF HOTEL MANAGEMENT</p> <p>This course examines the mechanisms and techniques employed in the management of hotel and motel companies. Comparisons, case studies, and selected topics focus on equity structures, operations, marketing, and systems for a variety of public and private operations.</p>
MHG	635	3 hrs.	<p>HOSPITALITY REVENUE MANAGEMENT</p> <p>This course introduces revenue management as a systematic process designed to increase revenue by leveraging tools designed to manage length-of-stay and apply effective pricing strategies. It deals with the theory and practice of operational and strategic revenue management policy and problems in the hospitality industry.</p>
MHG	642	3 hrs.	<p>FOUNDATION OF HOSPITALITY INDUSTRY</p> <p>This course examines the management techniques employed in hospitality companies. It focuses on information and conceptual tools needed to familiarize students with fundamentals of the global hospitality industry. Topics like characteristics of services industry, service quality, production and distribution of hospitality products are discussed.</p>
MHG	647	3 hrs.	<p>CHANGE MANAGEMENT</p> <p>This course reviews current perspectives of fundamental management of planned changes in organizational settings. Topic include skill requirements, alternative change strategies, criteria for strategy decisions, and general guidelines.</p>
MHG	670	3 hrs.	<p>LEGAL, REGULATORY, AND ETHICAL ISSUES IN THE HOSPITALITY AND GAMING INDUSTRY</p> <p>This course provides students with an understanding of the descriptive and economic analysis of the legal, regulator, and ethical issues related to the hospitality and gaming industry. The course includes a comparative analysis of the regulations of the various regulatory jurisdictions and state compacts with Indian reservations. It develops awareness of ethical considerations peculiar to the hospitality and gaming industry. Topics include economic impact of regulation, new jurisdictions, licensing, and price controls.</p>
MHG	687	3 hrs.	<p>FINANCIAL AND MANAGERIAL ACCOUNTING FOR THE HOSPITALITY AND GAMING INDUSTRY</p> <p>This course provides students with a comprehensive understanding of hospitality and gaming accounting relationships and how numbers in flue once operations and how operations influence numbers. The course addresses the service industry accounting systems and practices to provide students with necessary foundation to communicate effectively with the finance department of the organizations. Students will gain knowledge to improve skills necessary to understand and analyze financial reports for more effective business planning and decision making.</p>

Electives for Concentration – Gaming Management

MHG	611	3 hrs.	CASINO OPERATIONS This course deals with the basics of casino operations. Students are exposed to basic casino table games and slot department management operational procedures, relationship between these departments and other hotel/casino departments, and understanding of the casino operations management methods.
MHG	612	3 hrs.	CASINO AND GAMING MANAGEMENT This course examines the mechanisms used in management of casino holding companies. Case studies are used to explore topics that include organization and department policies, production processes, manpower development, scheduling, and marketing, operating systems, security and fraud prevention.
MHG	613	3 hrs.	CURRENT ISSUES IN GAMING INDUSTRY This course will examine current 11 issues in the casino and gaming industry, including trends, policies, and impacts on gaming and casino operations.
MHG	647	3 hrs.	CHANGE MANAGEMENT This course reviews current perspectives of fundamental management of planned changes in organizational settings. Topics include skill requirements, alternative change strategies. Criteria for strategy decisions, and general guidelines.
MHG	670	3 hrs.	LEGAL, REGULATORY, AND ETHICAL ISSUES IN THE HOSPITALITY AND GAMING INDUSTRY This course provides students with an understanding of the descriptive and economic analysis of the legal, regulator, and ethical issues related to the hospitality and gaming industry. The course includes a comparative analysis of the regulations of the various regulatory jurisdictions and state compacts with Indian reservations. It develops awareness of ethical considerations peculiar to the hospitality and gaming industry. Topics include economic impact of regulation, new jurisdictions, licensing, and price controls.
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-Notes-

SCHOOL OF NURSING



There is no exercise better for the heart than reaching out and lifting people up.”

SCHOOL OF NURSING

Debra Spring, Ph.D., Dean
School of Nursing Building
Natchez Campus
601-304-4302 FAX 601-304-4372

Degree Program/Concentration

Family Nurse Practitioner
 Post Master Family Nurse Practitioner
 Nurse Educator
 Post Master Nurse Educator

Required Admission Test

GRE General Test

 GRE General Test

Department of Graduate Nursing

Janelle R. Baker, Ph.D., AGPCNP-BC
 Director of Graduate Nursing Programs
 School of Nursing
 15 Campus Drive, Suite 115
 Natchez, MS 39120
 Phone: (601) 304-4303 FAX: (601) 304-4378

GRADUATE FACULTY

LaWanda Baskin, Assistant Professor of Nursing, B.S.N., University of Southern Mississippi; M.S.N., Alcorn State University

Teresa Bryan, Assistant Professor of Nursing, B.S.N., Northeast Louisiana University; M.S.N., University of Mississippi

Rebecca Fairchild, Assistant Dean and Associate Professor, B.S.N., University of Southern Mississippi; M.S.N., University of Southern Mississippi; Ph.D., William Carey University

Linda Godley, Professor of Nursing, B.S.N., Northeast Louisiana University; M.S.N., Northwestern State University; Ph.D., Southern University and A&M College

Debra Spring, Dean, School of Nursing and Professor, B.S.N., University of Southern Mississippi; M.S.N., University of Southern Mississippi; Ph.D., William Carey University

Yolanda Powell-Young, Professor, School of Nursing, Interim Chairperson of Graduate Nursing and Professor of Nursing, B.S.N., Grambling State University; M.S.N., Northwestern State University; Ph.D., Southern University & A&M College

Program Accreditation

The Master of Science in Nursing program is accredited by the:

Mississippi Board of Trustees of State Institutions of Higher Learning
3825 Ridgewood Road
Jackson, MS 39211
601.432.6486

Accreditation Commission for Education in Nursing
3343 Peachtree Road NE, Suite 850
Atlanta, Georgia 30326
404.975.5000
Fax 404.975.5020

THE GRADUATE NURSING PROGRAM MASTER OF SCIENCE IN NURSING

Mission

The Department of Graduate Nursing is devoted to educating nursing leaders and scholars committed to advancing the global healthcare needs of diverse and underserved populations through teaching, scholarship and service.

Program Description

The Graduate Nursing Programs (MSN) offers two options for baccalaureate prepared nurses. The Family Nurse Practitioner (FNP) option is designed to prepare graduates to provide global primary health care to diverse and underserved clients across the life continuum. Upon completion of the program of study, graduates are eligible to write a national certification examination for Family Nurse Practitioners (FNP). The program of study is designed to be completed in five (5) semesters (including one summer) and 44 semester hours of full-time continuous study.

The Nurse Educator (NE) option is designed to prepare qualified nurses to function as well-prepared educators in academic or healthcare settings. Upon completion of the program of study, graduates are eligible to write a national certification examination for Nurse Educators (NE). The program of study is designed to be completed in three (3) semesters (including one summer) and 35 semester hours of full-time continuous study.

The Post-Master's Certificate option is a special studies program for Master's prepared nurses pursuing certification in a specialty area or seeking a program of study that may lead to a change in role (e.g., a CNS seeking an FNP specialty certificate). Alcorn offers Post-Master's Certificate options for specialized study as a Family Nurse Practitioner (FNP) and Nurse Educator (NE). Upon completion of the program of study, applicants are eligible to write a national certification examination.

Nurses with advanced education have more opportunities to implement new nursing science, impact and transform the overall design of health care, and become leaders in health care systems. Graduates from Alcorn's graduate nursing programs are prepared to sit for national certification examinations, function as expert clinicians, conduct quality research, and demonstrate effective leadership that emanates from a spirit of inquiry and a commitment to life-long learning. Programs consist of courses that are taught using online and hybrid methodologies.

Graduate Program of Study Outcomes

The graduate program of study leading to the Master of Science in Nursing degree will:

1. Synthesize theoretical and empirical knowledge from nursing and other disciplines and evaluate this knowledge for use in guiding nursing research, nursing pedagogy and advance nursing practice.
2. Generate new teaching and practice approaches based on the integration of research, theory, and practice knowledge.
3. Demonstrate mastery of advanced knowledge and skills in advanced practice nursing (FNP) or in a specialized role (NE).
4. Analyze implications of ethical and legal issues affecting health care delivery, education and research.
5. Analyze the effect of organizational structure, functions, and resources on the development and delivery of quality health care and educational programs.
6. Communicate effectively in a scholarly manner using oral communication, written, and information technology in a variety of settings.
7. Assume complex and advanced leadership roles to initiate and guide changes that foster collaboration and contribute to the ongoing development of nursing education and practice.
8. Analyze the impact of culture and diversity on the delivery of healthcare and nursing education.
9. Utilize the best available evidence to continuously improve the quality of nursing education and practice.
10. Participate in professional organizations and activities that influence advanced practice nursing and/or health outcomes.

Admission Criteria

Applicants who are seeking admission to the Department of Graduate Nursing submit a complete application package. The application package includes:

1. Completion of the Alcorn State University Graduate School Application.
2. Official transcripts for all previous college course work.
3. Must be a graduate of an accredited nursing program.
4. Graduate Record Exam (GRE) scores taken within 5 years of application.
5. Current unencumbered license to practice nursing in a state or US territory and eligibility for licensure in the state in which you will complete your clinical practicums.
6. Provide three (3) letters of recommendation [professional, academic and personal] on official letterhead with original signatures specifying in detail the applicants' capabilities for graduate study and for future nursing practice.
7. Submission of video presentation/interview.
8. All transfer courses must be approved by the department of graduate nursing.

Applicants seeking a Post Master's Certificate must have a master's degree in nursing from an accredited college or university. The graduate progression within the School of Nursing is Master's degree in Nursing to Post-Master's certificate.

Conditional Admission

Students who are offered conditional admission must meet the following academic requirements:

- Students are required to earn a B grade or higher in all course work during their first semester of study;
- Completion of NU 500 [Graduate Style Writing] for students with a GRE analytical writing score < 3.0. Students are required to take NU 500 prior to the commence of fall courses;
- Students admitted with a nursing GPA of < 3.0 must maintain a 3.5 GPA in their first semester of study. Students who fail to obtain a 3.5 GPA in their first semester of study will be dismissed from the program.

Progression, Retention, & Dismissal

Full-time status requires enrollment in a minimum of nine (9) semester hours in the Fall and Spring, and six (6) semester hours in the Summer.

Based on the Alcorn State University Graduate School Policy a maximum of six consecutive calendar years from the date of first enrollment is allowed for completion of all degree requirements. Specific policies related to progression, retention, and dismissal can be found in the School of Nursing Graduate Student Handbook at: <http://www.alcorn.edu/academics/schools/son/index.aspx>.

Application deadline is **March 15th** for the **Family Nurse Practitioner Program** and **December 15th** for **Nurse Educator Program**.

Family Nurse Practitioner (FNP) Option Course Requirements

Program Description

The Family Nurse Practitioner Option is designed to prepare graduates to provide primary health care to underserved clients in rural settings. Upon completion of the program of study, graduates are eligible to write a national certification examination for family nurse practitioners. The program of study is designed to be completed in two years of full-time continuous study. The program of study may also be pursued on a part-time basis.

Course Requirements

THE PLAN OF STUDY

		Fall 1	Credits
NU 501	Role Development		2 hrs.
NU 502	Advanced Pathophysiology		3 hrs.
NU 503	Advanced Pharmacology		3 hrs.
NU 504	Theoretical Foundations in Nursing		3 hrs.
	Total		11 hrs.
		Spring 1	Credits
NU 505	Advanced Health Assessment		3 hrs.
NU 505L	Advanced Health Assessment Lab (60)		1 hr.
NU 506	Research Methods		3 hrs.
NU 507	Rural Health Care Policy		2 hrs.
	Total		9 hrs.

Summer 1		Credits
NU 508	Clinical Management Theory I	2 hrs.
NU 509	Clinical Management Practicum (120)	2 hrs.
NU 514	Introduction to Human Genetics	2 hrs.
Total		6 hrs.
Fall 2		Credits
NU 510	Clinical Management Theory II	2 hrs.
NU 511	Clinical Management Practicum II (120)	2 hrs.
NU 512	Clinical Management Theory III	2 hrs.
NU 513	Clinical Management Practicum III (120)	2 hrs.
NU 590/591	Thesis/Project	3 hrs.
Total		11 hrs.
Spring 2		Credits
NU 518	Synthesis Practicum (240)	4 hrs.
NU 590/591	Thesis/Project*	3 hrs.
Total		7 hrs.
Grand Total		44 hrs.

Post Master's Certificate Option (Family Nurse Practitioner)

Program Description

The Post Master's Certificate Option (Family Nurse Practitioner) is a 20-credit hour program that can be completed in two (2) semester and one (1) summer session. Students must have taken the Advance Pathophysiology, Pharmacotherapeutics, and Advanced Health Assessment within a five (5) year period. Clinical Placement can be arranged in the student's community. All courses are developed and taught by ASU nursing faculty.

Course Requirements

Summer 1		Credits
NU 501	Role Development	2 hrs.
NU 508	Clinical Management Theory I	2 hrs.
NU 509	Clinical Management Practicum I (120)	2 hrs.
NU 514	Introduction to Human Genetics	2 hrs.
Total		8 hrs.

Fall 2		Credits
NU 510	Clinical Management Theory II	2 hrs.
NU 511	Clinical Management Practicum II (120)	2 hrs.
NU 512	Clinical Management Theory III	2 hrs.
NU 513	Clinical Management Practicum III (120)	2 hrs.
Total		8 hrs.
Spring 2		Credits
NU 518	Synthesis Practicum (240)	4 hrs.
Total		4 hrs.
Grand Total		20 hrs.

Nurse Educator NE Option Course Requirements

Program Description

The Nurse Educator (NE) Option is designed to prepare qualified nurses to function as well-prepared educators in academic or healthcare settings. Upon completion of the program of study, graduates are eligible to write a national certification examination for Nurse Educators (NE). The program of study is designed to be completed in three semesters (including one summer) of full-time continuous study.

Course Requirements

THE PLAN OF STUDY

Summer 1		Credits
NU 502	Advanced Pathophysiology	3 hrs.
NU 504	Theoretical Foundations in Nursing	3 hrs.
NU 507	Health Policy	2 hrs.
NU 530	Curriculum Theory & Design in Nursing Education	3 hrs.
Total		11 hrs.
Fall 1		
NU 503	Advanced Pharmacology	3 hrs.
NU 506	Research Methods	3 hrs.
NU 531	Curriculum Strategies & Roles in Nursing Education	3 hrs.
NU 532	Assessment & Evaluation in Nursing Education	3 hrs.
Total		12 hrs.

Spring 1		Credits
NU 505	Advanced Health Assessment	3 hrs.
NU 505L	Advanced Health Assessment Lab (60)	1 hr.
NU 533	Nursing Education Practicum (240)	4 hrs.
NU 539	Capstone Project	4 hrs.
Total		12 hrs.
Grand Total		35 hrs.

Post-Master's Certificate Option (Nurse Educator)

Program Description

The Post-Master's Certificate Option (Nurse Educator) is a 13-credit hour program that can be completed in two (2) semesters and one (1) summer session. Students must have taken the Advance Pathophysiology, Pharmacotherapeutics, and Advanced Health Assessment within a five (5) year period. Clinical Placement can be arranged in the student's community. All courses are developed and taught by ASU nursing faculty.

Course Requirements

Summer I		Credits
NU 530	Curriculum Theory & Design in Nursing Education	3 hrs.
Total		3 hrs.
Fall 1		
NU 531	Curriculum Strategies & Roles in Nursing Education	3 hrs.
NU 532	Assessment & Evaluation in Nursing Education	3 hrs.
Total		6 hrs.
Spring 1		
NU 533	Nursing Education Practicum (240)	4 hrs.
Total		4 hrs.
Grand Total		13 hrs.

Nursing Course Descriptions (NU)

NU	500	3 hrs.	GRADUATE NURSING STYLE WRITING This online course is designed to teach standards for writing and editing at the graduate level. Emphasis will be placed on the analysis and synthesis of scholarly literature. Pre-Requisite: Conditional Admission
NU	501	3 hrs.	ROLE DEVELOPMENT In this core course the student will examine the theoretical bases and strategies for effective enactment of advanced nursing. Practice roles: nurse practitioner, nurse midwife, clinical nurse specialist or nurse anesthetists. The student will analyze various theoretical frameworks, examine expectations and strategies, and analyze issue surrounding role behaviors in advanced nursing practice. Enactment of sub-roles such as researcher, leader, consultant and educator will also be examined. Pre-requisite: Graduate Standing Co-requisites: Refer to Plan of Study
NU	502	3 hrs.	ADVANCED PATHOPHYSIOLOGY This online course examines current research in human pathophysiology, as well as explores physiological alterations underlying disease entities and relating knowledge to interpret changes in normal function that result in symptoms indicating an illness process across the life continuum. Pre-requisite: Graduate Standing Co-requisites: Refer to Plan of Study
NU	503	3 hrs.	ADVANCED PHARMACOLOGY This online course prepares nurses for professional roles in advanced nursing practice with knowledge of pharmacokinetic and pharmacodynamic principles of common drug categories used to prevent illness, and to restore and maintain health for client systems across the life span. Mechanisms of action, pharmacologic response, usual doses, adverse effects, indications, interactions, compatibilities, contradictions, and routes of administration will be emphasized in acute and chronic conditions. Legal consideration of prescription writing is incorporated. A scholarly approach is used to apply theory and research to pharmacotherapeutic regimens in rural family communities. Co-requisites: Refer to Plan of Study
NU	504	3 hrs.	THEORETICAL FOUNDATIONS IN NURSING This online course examines the development of philosophical and theoretical bases for nursing practice. It includes the study and critique of nursing theories and theories from related disciplines. The interrelationships between nursing theories, research, and practice are emphasized. This course provides students the opportunity to begin to develop a conceptual framework for their own practice and research. Students are also introduced to the roles of advanced practice. Co-requisites: Refer to Plan of Study
NU	505	3 hrs.	ADVANCED HEALTH ASSESSMENT This online course examines current health assessment techniques and provides students the opportunity to synthesize interviewing, health history, and physical examination skills; laboratory/diagnostic data collection and interpretation;

diagnostic reasoning and clinical decision-making for advanced nursing practice across the life continuum in a variety of settings.

Pre-requisite: Graduate Standing

Co-requisites: Refer to Plan of Study

NU	505L	1 hr.	<p>ADVANCED HEALTH ASSESSMENT LAB This hybrid course is a practicum that focuses on the students' performance and interpretation of assessment and diagnostic for advanced practice nursing. This course requires sixty (60) laboratory/clinical hours. This practicum course is the first in the sequence of clinical courses, and is pre-requisite to other practicum courses. Pre-requisite: Graduate Standing Co-requisites: Refer to Plan of Study</p>
NU	506	3 hrs.	<p>RESEARCH METHODS This online course builds upon the knowledge of the research process learned at the baccalaureate level. It focuses on the process of empirical investigation in the development of nursing theory, which includes scientific inquiry and ethical issues of conducting research. Emphasis is on the formulation of testable hypotheses and the development of a research proposal. Pre-requisite: Graduate Standing Co-requisites: Refer to Plan of Study</p>
NU	507	2 hrs.	<p>RURAL HEALTH CARE POLICY This online course introduces students to global health care systems and models, and their influence on health disparities and healthcare delivery. A major focus of this course is for students to critically think about and discuss health and health care within a global environment. Patterns of influence that drive current policy development are examined and proposal of advocacy behaviors is encouraged. Co-requisites: Refer to Plan of Study</p>
NU	508	2 hrs.	<p>CLINICAL MANAGEMENT THEORY I This online clinical management course is the acquisition of advanced knowledge and skills for primary care and disease management of acute and chronic health problems in the adult and older adult (geriatric) populations in a variety of settings. Theories of aging, health, health promotion and restoration are included. Uses of diagnostic procedures, pharmacological and non-pharmacological therapies are emphasized. Pre-requisite: NU502, NU503, NU503L Co-requisites: Refer to Plan of Study</p>
NU	509	2 hrs.	<p>CLINICAL MANAGEMENT PRACTICUM I This online clinical management practicum course places emphasis on assessment, diagnosis, goal-setting and interventions in management and treatment of acute and chronic health problems for the adult and older adult (geriatric) populations. Application of primary care and case management services in a variety of settings in collaboration with physicians (MD or DO) and nurse practitioners. A minimum of 120 hours of clinical practice is required. Co-requisites: Refer to the Plan of Study</p>
NU	510	2 hrs.	<p>CLINICAL MANAGEMENT THEORY II This online clinical management course is the acquisition of advanced knowledge and skills for primary care and disease management of acute and chronic health</p>

problems in women's health across the life continuum. Theories of health, health promotion and restoration are included. Uses of diagnostic procedures, pharmacological and non-pharmacological therapies are emphasized.

Pre-requisite: NU507, NU508

Co-requisites: Refer to the Plan of Study

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| NU | 511 | 2 hrs. | <p>CLINICAL MANAGEMENT PRACTICUM II</p> <p>This online clinical management practicum course places emphasis on assessment, diagnosis, goal-setting and interventions in management and treatment of acute and chronic health problems for women's health across the life continuum. Application of primary care and case management services in collaboration with physicians (MD or DO) and advanced practice nurses. A minimum of 120 hours of clinical practice is required.</p> <p>Co-requisites: Refer to the Plan of Study.</p> |
| NU | 512 | 2 hrs. | <p>CLINICAL MANAGEMENT THEORY III</p> <p>This third online clinical management theory course is the acquisition of advanced knowledge and skills for primary care and disease management of acute and chronic health problems in the pediatric population. Theories of human growth and development, health promotion and disease prevention are included. Uses of diagnostic procedures, pharmacological and non-pharmacological therapies are emphasized. All information is presented within the context of the individual, family system, and community as a whole.</p> <p>Pre-requisite: NU509, NU510</p> <p>Co-requisites: Refer to the Plan of Study</p> |
| NU | 513 | 2 hrs. | <p>CLINICAL MANAGEMENT PRACTICUM III</p> <p>This online clinical management practicum course places emphasis on assessment, diagnosis, goal-setting and interventions in management and treatment of acute and chronic health problems for pediatric populations. Application of primary care and case management services in collaboration with physicians (MD or DO) and nurse practitioners. A minimum of 120 hours of clinical practice is required.</p> <p>Pre-requisite: NU509, NU510</p> <p>Co-requisites: Refer to Plan of Study</p> |
| NU | 514 | 2 hrs. | <p>INTRODUCTION TO HUMAN GENETICS</p> <p>This course provides an introduction to the organization of the human genome and basic principles of inheritance in humans. Course content includes an overview of cells and development, organization of the human genome, chromosome structure and function, gene structure and function, genes in pedigrees and populations, and the implications of genetic variation on health.</p> <p>Pre-requisite: NU501, NU503, NU504, NU505, NU505L, NU507</p> <p>Co-requisite: NU508, NU509</p> |
| NU | 518 | 4 hrs. | <p>SYNTHESIS PRACTICUM</p> <p>This the final practicum experience focuses on the synthesis of previously gained knowledge and skills in the provision of advanced nursing care to individuals, families, and communities. Emphasis is placed on health promotion, disease prevention, and clinical management of clients with common acute and chronic illnesses. A minimum of 240 hours of clinical practice is required.</p> <p>Pre-requisite: NU507, NU508, NU509, NU510, NU512, NU513</p> <p>Co-requisites : Refer to the Plan of Study</p> |

NU	530	3 hrs.	CURRICULUM THEORY & DESIGN IN NURSING EDUCATION This online course explores curriculum development in nursing education with emphasis on theories and procedures. Included is an introduction to philosophies, program objectives and conceptual framework development inherent to the role of the nurse educator Co-requisites: Refer to the Plan of Study
NU	531	3 hrs.	CURRICULUM STRATEGIES & ROLES IN NURSING EDUCATION This online course explores the competencies and roles of the advanced nurse as educator, practitioner and scholar. Consideration is given to learning theories, legal and ethical issues, and resources utilized for integration into classrooms and clinical settings. Co-requisites: Refer to the Plan of Study
NU	532	3 hrs.	ASSESSMENT AND EVALUATION IN NURSING EDUCATION This online course is designed to explore methods of evaluation, with emphasis on test preparation and the clinical performance appraisal. Co-requisites: Refer to the Plan of Study
NU	533	4 hrs.	NURSING EDUCATION PRACTICUM This guided practicum experience places emphasis on theory, critical thinking, and analysis in the use of teaching strategies. A minimum of 240 hours of clinical practice is required. Co-requisites: Refer to Plan of Study
NU	534	3 hrs.	CLINICAL PRACTICUM FOR NURSE EDUCATOR This course is a clinical preceptorship in selected clinical sites in rural or urban areas with opportunities to define the role of the nurse educator as a clinician. Co-requisites: Refer to Plan of Study
NU	539	4 hrs.	CAPSTONE PROJECT This capstone is a scholarly project that addresses an issue, need, gap or opportunity resulting from an identified phenomenon in nursing education or healthcare need. The capstone project provides the opportunity for the graduate nursing student to demonstrate competency through design, application and evaluation of advanced nursing knowledge and higher level leadership skills for ultimately improving health outcomes.
NU	590	3 hrs.	THESIS The thesis is derived from the investigation of a major educational or clinical problem based on the specialty and meets the research requirements for graduation from a Master of Science in Nursing Program. Students are required to be continuously enrolled in a minimum of six (6) semesters hours or until the thesis is completed and approved. Co-requisites: Refer to Plan of Study
NU	591	3 hrs.	RESEARCH PROJECT This course will require, in lieu of thesis, the utilization of evidence based knowledge to develop a scholarly paper that is manuscript ready. Students must be enrolled in the course three consecutive semesters for a minimum of six (6) semester hours or until the manuscript is completed and approved. Co-requisites: Refer to Plan of Study

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