



College of Science and Technology

Academic Offerings

1998-1999

School/Department	Major/Emphasis	Degree***
SCHOOL OF ENGINEERING TECHNOLOGY		
	ARCHITECTURAL ENGINEERING TECHNOLOGY*	BS
	COMPUTER ENGINEERING TECHNOLOGY*	BS
	Computer Engineering Technology Emphasis	
	Computer Engineering Technology Software Emphasis	
	CONSTRUCTION ENGINEERING TECHNOLOGY*	BS
	ELECTRONICS ENGINEERING TECHNOLOGY*	BS
	INDUSTRIAL ENGINEERING TECHNOLOGY*	BS
	Industrial Engineering Technology Emphasis	
	Manufacturing Technology Emphasis	
	INDUSTRIAL TRAINING	BS
	Computer Technology Emphasis	
	Construction Emphasis	
	Environmental Sciences Emphasis	
	Industrial/Manufacturing Emphasis	
	MECHANICAL ENGINEERING TECHNOLOGY*	BS
	PRE-ENGINEERING**	
	PRE-ARCHITECTURE**	
BIOLOGICAL SCIENCES		
	BIOLOGICAL SCIENCES*	BA,BS
	Biological Sciences Emphasis	
	Environmental Biology Emphasis	
	Marine Biology Emphasis	
	Microbiology Emphasis	
	Molecular Biology Emphasis	
CHEMISTRY AND BIOCHEMISTRY		
	CHEMISTRY*	BS
	ACS Certified Emphasis	
	Biochemistry Emphasis	
	Chemistry Emphasis	
COMPUTER SCIENCE AND STATISTICS		
	COMPUTER SCIENCE*	BS
	Computer Science Emphasis	
	Statistics Emphasis	
GEOLOGY		
	GEOLOGY*	BS

MATHEMATICS

MATHEMATICS* BS

MEDICAL TECHNOLOGY

MEDICAL TECHNOLOGY BS

PHYSICS AND ASTRONOMY

PHYSICS* BS

POLYMER SCIENCE

POLYMER SCIENCE* BS

(FORENSIC SCIENCE)****

ADDITIONAL PROGRAMS

(ENVIRONMENTAL SCIENCE)****

(GENERAL SCIENCE)****

(PREPROFESSIONAL PROGRAMS)

Pre-Cytotechnology**

Pre-Dental**

Pre-Dental Hygiene**

Pre-Health Information Management**

Pre-Medical**

Pre-Occupational Therapy**

Pre-Optometry**

Pre-Pharmacy**

Pre-Physical Therapy**

Pre-Veterinary**

* Minor available.

** These programs do not lead to degrees. Students in a preprofessional program will select an academic major with a "minor" in the appropriate preprofessional area. They will either complete the degree or transfer to the appropriate professional school after satisfying its entrance requirements.

*** Degree Abbreviations: (BA) Bachelor of Arts, (BS) Bachelor of Science

**** Only a minor is available



College of Science and Technology

Stephen A. Doblin, Dean
C. Howard Heiden, Associate Dean
R.D. Ellender, Associate Dean for Research and Development
Kerry Herzinger, Assistant to the Dean for Student Services and Preprofessional Programs
Hattiesburg, MS 39606-5165
(601) 266-4883

The College of Science and Technology provides training in all of the classical fields of science, several contemporary multidisciplinary areas, and "career-oriented" technology degree programs.

The College of Science and Technology is organized into two schools, eight departments, and six centers or institutes. The School of Engineering Technology includes programs in Architectural, Computer, Construction, Electronics, Industrial, and Mechanical Engineering Technology at the undergraduate level; a program in Industrial Training is also available. The School of Mathematical Sciences includes the departments of Computer Science and Statistics, Mathematics, and Physics and Astronomy; descriptions of its undergraduate programs can be found in the listings of its departments. Other departments of the College include Biological Sciences, Chemistry and Biochemistry, Geology, Medical Technology, and Polymer Science. The centers and institutes include those for Marine Science, Science Education, Environmental Science, Molecular and Cellular Biosciences, Formulation Science, and the Mississippi Polymer Institute.

Preprofessional programs are offered by the College of Science and Technology in the following health related areas: medicine, dentistry, veterinary medicine, pharmacy, physical therapy, optometry, dental hygiene, health information management, occupational therapy, and cytotechnology. These programs are administered by the Premedical and Health Professions Office. The College also provides pre-engineering and pre-architecture curricula.

Students who matriculate at USM as a College of Science and Technology major may not subsequently attend another institution of higher learning (e.g., community/junior college, 4-year college, or university) with the intention of transferring courses taken at these institutions back to their USM degree program unless they have received prior approval to take such courses by their department chair and college dean. USM students who take courses at another institution of higher learning without obtaining prior approval of their chair and dean may petition their chair and dean for inclusion of such courses in their USM degree program, but approval will be granted only if the reasons for not obtaining prior approval are substantial and warrant such an exception to the above stated policy. In all but the most unusual circumstances, USM students who take courses at another institution to repeat courses already taken at USM will not be allowed to count these courses towards the completion of their USM degree. USM students majoring in degree programs outside the College of Science and Technology who subsequently request transfer into one of the College of Science and Technology degree programs must meet all of the above conditions or receive prior approval by their new chair and dean for any exceptions.

A student wishing to obtain either a Bachelor of Science or Bachelor of Arts degree from the College of Science and Technology must complete the following College of Science and Technology requirements.

Hours

I.	Reasoning and Communication Skills (18 hours)	
	English 101, 102 and Speech Communication	9
	Computer Science (programming language)	3
	*Mathematics (MAT 101 or higher)	6
II.	Humanities and Fine Arts (12 hours)	
	World Literature (ENG 203)	3
	World Civilization (HIS 101 and HIS 102)	6
	Allied Arts, Art, Music, or Theater (one of AA 100, ART 130, DAN 107, MUS 365, THE 100)	3



III. Social and Behavioral Sciences (6 hours)	
Anthropology, Economics, Geography, Psychology, Political Science, Sociology (one course from any two of the preceding areas; ANT 101 or 221; ECO 200 or 201; GHY 101, 102, 331, or 341; PS 101, 220, 331, or 425; PSY 110 or 375; SOC 101, 240, or 314)	6
IV. Natural and Applied Sciences (17 hours)	
Laboratory Science (excluding Fundamentals of Science and Mathematics)	8
Laboratory Science, Non-Laboratory Natural Science, or Applied Science or Technology (excluding Fundamentals of Science and Mathematics)	6
*Mathematics	3
V. Human Wellness (2 hours)	
Food and Nutrition (NFS 167)	1
Physical Fitness (HPR 105)	1
TOTAL:	55

*Must include at least one course in Calculus among the 9 hours of Mathematics taken.

NOTE: The student seeking a Bachelor of Arts degree in a department offering the degree must complete 3 additional hours of English and 6-9 hours of foreign language. Students who have two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six semester hours at the 200- level or above.

In addition to the degree programs offered by the College of Science and Technology, minors are available in the areas noted previously under "Academic Offerings." Two of these minors are interdisciplinary, one in Environmental Science and one in General Science.

Requirements for a minor in Environmental Science

Students pursuing the undergraduate minor in Environmental Science must complete a minimum of eighteen (18) hours of course work. Courses used to meet minimum requirements in the core, major, or another minor may not be duplicated for the Environmental Science Minor. The following course is required: ESC 301 (Living in the Environment). The remaining fifteen (15) hours must be selected from among the following courses: BSC 435/L, 440/L, 441/L, 443/L, 444/L, 489/L; CHE 311/L, 411/L; CHS 321, 421, 440; CJ 480, CSS 418, 435; ENT 430/L; ESC 205, 302, 330, 401/L, 402/L, 431/L, 492; GHY 311/L, 323, 325/L, 370, 412/L, 417/L, 418/L, 425, 427, 474; GLY 306, 411, 465, 476; MAR 401/L, 405/L, 406/L, 422/L, 441/L, 461/L, 481/L; PLG 462, 465; SOC 461; TOX 470. From time to time, additional courses will be approved for inclusion among the fifteen hours of electives. Students should inquire about the most current listing from either: Assistant to the Dean, College of Science and Technology or Director, School of Engineering Technology.

Requirements for a minor in General Science

The multidisciplinary General Science minor requires twenty-seven (27) hours from three or more appropriate fields (astronomy, biological sciences, chemistry, computer science, geology, marine science, mathematics, physics, and polymer science) with at least eight (8) hours from each field included; courses in the major are excluded.

Center for Science and Mathematics Education

Donald R. Cotten, Director
(601) 266-4739

Bellipanni, Bowen, Cleek, Cotten, Contreras, Garraway, Gregg, Hairston, Herron, J. E. Howell, Hughes, L. McDowell, Pope, S. R. Ross, G. Russell, Sirochman

The Center for Science and Mathematics Education coordinates all programs in teacher education offered by the College of Science and Technology. Teacher education programs in the sciences are offered through the Departments of Biological Sciences, Chemistry and Biochemistry, Computer Science and Statistics, Geology, and Physics and Astronomy. Programs in secondary teacher education require the equivalent of a major in an academic discipline and a minor in secondary education. Students interested in science teaching licensure at the secondary level are referred to the department offering the academic discipline of their choice. Students transferring from the community and junior colleges are advised to follow the core requirements outlined for the College of Science and Technology.

Objectives

The objectives of the Center for Science and Mathematics Education are: (1) to coordinate all programs in teacher education offered by the College of Science and Technology; (2) to provide, in cooperation with the Department of Curriculum and Instruction, a curriculum in the sciences and science methods for prospective elementary school teachers; (3) to provide the science teaching methods course and student teaching supervision for prospective secondary teachers; (4) to provide programs leading to advanced degrees in science education; (5) to work with public schools in the development of curricula, workshops, science fairs, and other activities designed to improve science instruction at all public school levels; and (6) to utilize educational technology as an effective delivery tool for professional development.

Curriculum and Programs

The Center for Science and Mathematics Education offers a three course sequence: FS 131, General Physical Science; FS 133, General Biological Science; and FS 135, Earth and Environmental Science. The courses in the Fundamentals of Science (FS) sequence are laboratory courses designed to meet core requirements for elementary education and special education majors. In addition, the Center offers elementary and secondary science teaching methods courses designated in the catalog as Science Education (SCE).

Graduate programs offered by the Center for Science and Mathematics Education are described in the Graduate Bulletin.

Institute of Environmental Science

Desmond Fletcher, Director
Hattiesburg, MS 39406-5137
(601) 266-4896

The Institute of Environmental Science assembles teams of researchers from all disciplines as needed to undertake applied research in the areas of environmental studies and renewable energy resources. Providing environmental expertise to the community is another major function of the Institute.

Center for Molecular and Cellular Biosciences

Glen Shearer, Coordinator
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The Center is composed of scientists with expertise in the disciplines of biochemistry, microbiology, molecular biology and molecular genetics. The Center facilitates research in these areas by means of a weekly Journal Club, which reviews the current literature, and the Distinguished Scientists Seminar Series, which brings world-renowned researchers to the Hattiesburg campus. In addition, the Center provides a forum for interaction among graduate and undergraduate students working in the laboratories of the participating faculty. Faculty currently associated with the Center are members of the Department of Biological Sciences or the Department of Chemistry and Biochemistry.

Mississippi Polymer Institute

Robert K. Schlatter, Director
Hattiesburg, MS 39406-0003
(601) 266-4607

The Mississippi Polymer Institute was authorized by the Mississippi Legislature in 1983. The purpose of the Institute is to conduct research designed to increase the utilization of Mississippi raw materials in polymers and to support the rapidly growing polymer industry in Mississippi. The Institute is an integral part of the College of Science and Technology and functions in concert with the Department of Polymer Science.



Institute for Formulation Science

Shelby F. Thames, Director
Hattiesburg, MS 39406-0076
(601) 266-4080

The Institute for Formulation Science supports and coordinates research in coatings technology. The Institute is an integral part of the College of Science and Technology and functions in concert with the Department of Polymer Science.

Premedical and Health Professions Office

Kerry F. Herzinger, Director
Hattiesburg, MS 39406-0006
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The Premedical and Health Professions Office administers ten undergraduate programs that lead to professional study in the following fields: medicine, dentistry, optometry, veterinary medicine, pharmacy, dental hygiene, physical therapy, occupational therapy, cytotechnology, and health information management. These preprofessional programs vary greatly in content and duration; all are designed to prepare students for admission to the appropriate professional school. Students interested in any of these fields are urged to contact the Premedical and Health Professions Office to ensure that the proper courses are taken and the necessary procedures are followed. For details regarding the individual programs, consult the descriptions below.

Pre-Cytotechnology Program

The University of Southern Mississippi offers a two-year program that prepares students for the two-year professional program within the Department of Cytotechnology, School of Health-Related Professions, University of Mississippi Medical Center. Students completing this program receive the B.S. degree from the University of Mississippi.

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Pre-Dental Program

Minimal requirements for admission to most schools of dentistry are similar and normally include completion of specified courses in English, biology, chemistry, physics, and mathematics; completion of a baccalaureate degree; and scores from the nationally-administered Dental Admission Test (DAT). The PACE Program Plan for Pre-Dental outlined later in this catalog lists minimal requirements for admission to the School of Dentistry of the University of Mississippi and most other dental schools. Pre-dental students do not receive a degree in "pre-dent." Rather, as they follow a pre-dental curriculum, they work toward completing a baccalaureate degree in the field of their choice. Students usually take the DAT the spring of the junior year and make application to dental school the fall of the senior year.

Exceptional students with as few as 90 semester hours credit, who otherwise meet admissions criteria, may be admitted to dental school; under certain conditions, those individuals may transfer credits from their first year at dental school and receive the bachelor's degree from The University of Southern Mississippi.

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Pre-Dental Hygiene Program

The University of Southern Mississippi offers a two-year curriculum that prepares students for the two-year professional program in dental hygiene at the University of Mississippi Medical Center. Students completing the entire program receive the B.S. degree from the University of Mississippi.



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Pre-Health Information Management Program

This curriculum prepares students for the two-year professional program within the Department of Health Information Management, School of Health Related Professions, University of Mississippi Medical Center. Acceptance into this program is dependent upon the degree of preparation and level of academic achievement of candidates and is determined solely by the professional school. Students completing the professional program receive the B.S. degree in Health Information Management from the University of Mississippi.

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Pre-Medical Program

Schools of medicine have fundamentally similar minimal requirements for admission. Generally, these requirements include completion of specified courses in English, biology, chemistry, physics, and mathematics; completion of a baccalaureate degree; and scores from the nationally-administered Medical College Admission Test (MCAT).

The curriculum outlined meets only minimal requirements for admission to the School of Medicine of the University of Mississippi and to other medical schools. Premedical students do not receive a degree in “pre-med.” Rather, as they follow a pre-medical curriculum, they work toward completing a baccalaureate degree in the field of their choice. Students usually take the MCAT the spring of the junior year and apply to medical school the following summer.

Exceptional students with as few as 90 semester hours credit, who otherwise meet admissions criteria, may be admitted to medical school; under certain conditions, these individuals may transfer credits from their first year at medical school and receive the bachelor’s degree from The University of Southern Mississippi.

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Pre-Occupational Therapy Program

The curriculum in pre-occupational therapy prepares students for the two-year professional program at the University of Mississippi Medical Center. Students completing the entire program receive the B.S. degree from the University of Mississippi. Admission to professional programs of occupational therapy is extremely competitive, being dependent upon a strong record of academic preparation and achievement; it is determined solely by the professional school.

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Pre-Optometry Program

Students wishing to study optometry must complete three or more years in a preprofessional program. Currently, programs at the University of Alabama at Birmingham, the Southern College of Optometry in Memphis, Tenn., and the University of Houston in Houston, Tex., admit residents of Mississippi to professional study. The prerequisites for admission to these programs are somewhat different, and the student and pre-optometry adviser will need to determine the appropriate preprofessional curriculum to be followed. The curriculum outlined in the PACE Program Plan for Pre-Optometry is only illustrative and does not reflect the specific entrance requirements of a particular school of optometry. The Optometry Admission Test (OAT) is a requirement for admission to all colleges of optometry and should be taken in the fall of the third year of pre-professional study.



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Pre-Pharmacy Program

Colleges of pharmacy normally require four years of preprofessional training, but minimal requirements for admission vary. The student and the pre-pharmacy adviser will design the academic program to meet the specific admission criteria for the college of pharmacy which the student wishes to attend. The PACE Program Plan outlined in this catalog meets admission requirements of the School of Pharmacy of the University of Mississippi as well as many other pharmacy schools. The Pharmacy College Admission Test (PCAT) is required by the University of Mississippi; it may also be required by other schools. It is given in February, April, and November of each year; applications are available in the Premedical and Health Professions Office.

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Pre-Physical Therapy Program

The curriculum in pre-physical therapy fulfills course requirements for admission to the two-year professional program within the Department of Physical Therapy, School of Health Related Professions, University of Mississippi Medical Center. A minimum of sixty-five (65) semester hours is required, and students must have observed the work of two clinical departments of physical therapy for at least thirty (30) hours prior to application. Admission to professional programs of physical therapy is extremely competitive, dependent upon a strong record of academic preparation and achievement; it is determined solely by the professional school.

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Pre-Veterinary Program

Residents of Mississippi wishing to study veterinary medicine ordinarily apply to the College of Veterinary Medicine, Mississippi State University. Current criteria for admission to that college are given in the MSU publication "Requirements for Application to the College of Veterinary Medicine," which is available from the pre-veterinary adviser. Candidates are evaluated on the basis of pre-veterinary academic preparation, as well as expertise in management of domestic animals and experience within the food-animal industry.

The pre-vet curriculum satisfies minimal course requirements for admission to MSU's College of Veterinary Medicine; applicants to other schools should consult the appropriate admissions offices. Although only sixty-five (65) semester hours of undergraduate coursework are required, students are strongly advised to work towards completing the baccalaureate degree in a science field. The Veterinary College Admission Test (VCAT) is also required. It is recommended that students acquire experience working in a veterinary clinic before applying to a vet school.

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School of Engineering Technology

R.A. Cade, Director
Hattiesburg, MS 39406-5137
(601) 266-4896

Adams, Ali, Anderson, Coates, Fletcher, Harrison, Heiden, Houston, Huffman, Johnsey, Kemp, Leybourne, Lindsey, Lipscomb, Marchman, Mathis, Murphy, Neal, Russell, Sower, Vajpayee, Wilder

The School of Engineering Technology offers seven undergraduate programs with direct application to industry:

- Architectural Engineering Technology
- Computer Engineering Technology
- Construction Engineering Technology
- Electronics Engineering Technology
- Industrial Engineering Technology
- Industrial Training
- Mechanical Engineering Technology

The Engineering Technology programs are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC/ABET). The School also offers a two-year pre- engineering program and a program leading to the Master of Science in Engineering Technology.

The baccalaureate programs provide career-oriented technical education that enables graduates to enter positions with skills that are in high demand in modern industry. All programs are geared to accept transfer students from accredited community/junior colleges and technical institutes. Some guidance for transfer students is provided with the individual program information in this section; however, students planning to transfer to the School of Engineering Technology are urged to contact the appropriate Program Coordinator for details.

Minor programs in Engineering Technology are outlined following the corresponding major programs. Minor requirements may not be satisfied by transfer of courses from other institutions which are not accredited by TAC/ABET.

Architectural Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology)

George Mathis, Coordinator
Hattiesburg, MS 39406-5137
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The Architectural Engineering Technology program educates future Architectural Engineering Technologists in the process of producing design projects from schematics through construction. The program is designed to prepare its graduates for employment in architecturally-related firms, including architects' offices, design-build firms, engineering firms, governmental agencies, real estate development firms, planning offices, and architectural materials suppliers and manufacturers. Major courses of study include architectural design, architectural history, architectural working drawings, building materials, computer-aided design and drafting, electrical systems, estimating, mechanical systems, office practices, specifications, structural design, and surveying. Students desiring to transfer to a school of architecture should consult with their adviser early in their course of studies.

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Requirements for a Minor in Architectural Engineering Technology

The requirements for a minor in Architectural Engineering Technology are ACT 132/L, ACT 204, ACT 322, and nine (9) hours of Architectural Engineering Technology electives (recommended courses are ACT 262/L, ACT 316, and ACT 323/L).



Computer Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology)

Gary Johnsey, Coordinator
Hattiesburg, MS 39406-5137
(601) 266-4896

The major in Computer Engineering Technology offers the student a variety of topics concerning the uses of computers and digital electronics in our technical society. The plan of study leading to the baccalaureate degree provides the student with practical applications of computer technology in combination with the theoretical background necessary for a well rounded education. Extensive laboratory experience aids the student in the design, analysis, and application of digital electronics to the problems encountered in modern technology. Graduates of this program are expected to be knowledgeable in digital electronics, computer hardware and software, and applications involving the computer as a problem-solving tool.

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Requirements for a Minor in Computer Engineering Technology

Students minoring in Computer Engineering Technology must complete twenty-one (21) hours as follows: MAT 137 or 168 and eighteen (18) hours of Computer Engineering Technology electives.

Construction Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.)

David Marchman, Coordinator
Hattiesburg, MS 39406-5137
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The Construction Engineering Technology program emphasizes the technology, engineering principles, and business educational requirements that have been historically needed by the construction industry. Construction is one of the largest and most diversified industries in the world, accounting for approximately 10 percent of the country's gross national product. The key professional in this vast enterprise is the constructor. Various job titles for the constructor are: estimator, scheduler, superintendent, project manager, project engineer, controls manager, materials manager, or owner. These skilled professionals are indispensable in meeting the global needs for new structural, civil engineering, and environmental projects.

While requiring basic business courses, the interdisciplinary Construction Engineering Technology program offers students specialized course work in building systems, construction procedures, cost estimating, construction contracts, and construction design. Graduates are employed in both office and field positions in the commercial, industrial, utility, highway, and residential sectors. Employers include contractors, subcontractors, consultants, government agencies, and construction services firms.

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Requirements for a Minor in Construction Engineering Technology

The requirements for a minor in Construction Engineering Technology are ACT 132/L, ACT 204, and ACT 235/L, plus nine (9) hours of Construction Engineering Technology electives (recommended courses are BCT 336/L, BCT 454/L, BCT 455/L, and BCT 458/L).



Electronics Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology)

Gary Johnsey, Coordinator
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(601) 266-4896

The major in Electronics Engineering Technology covers a variety of topics in modern electronics, including electronic devices, digital systems and microprocessors, instrumentation, control systems, power systems, and communications electronics. Graduates have extensive knowledge of electronics and are qualified to fill supervisory positions in the electronics industry.

Students transferring from a junior college or technical institute should have completed the following courses in order to complete the program in 4 regular semesters:

1. Freshman and sophomore level courses in basic electricity and electronics (26 sem. hrs.), normally satisfied by Associate Degrees in Electronics Technology;
2. English composition (6 sem. hrs.);
3. College algebra and trigonometry (6 sem. hrs.);
4. Physics with laboratory (8 sem. hrs.);
5. Computer programming (3 sem. hrs.); and
6. Other courses applicable to the General Education Core Curriculum (12 sem. hrs.) — Calculus I and II are strongly recommended.

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Requirements for a Minor in Electronics Engineering Technology

Students minoring in Electronics Engineering Technology must complete eighteen (18) hours as follows: EET 110/110L, EET 111/111L, and ten (10) hours of Electronics Engineering Technology electives (EET 210/210L, EET 311/311L are strongly recommended).

Industrial Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology)

Eyler Coates, Coordinator
Hattiesburg, MS 39406-5137
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The major in Industrial Engineering Technology is designed to prepare students to meet the growing demands of industry for employees with expertise in manufacturing processes, statistical quality control, production management, automation, and computer-aided manufacturing. In addition to the traditional program emphasizing productivity improvement, a special emphasis area in manufacturing is offered. Both programs provide the graduate with a strong background in the technical sciences and applied mathematics, and prepares him or her for a wide spectrum of jobs in the manufacturing, service, and government sectors.

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Requirements for a Minor in Industrial Engineering Technology

The requirements for a minor in Industrial Engineering Technology are IET 405, 409, 410 (required) and nine (9) hours of Industrial Engineering Technology electives.



Industrial Training

Doris Kemp, Coordinator
Hattiesburg, Mississippi 39406-5137
(601) 266-4896

The Industrial Training curriculum is designed to produce graduates who meet industry's requirements for skilled technical workers with expertise to develop and conduct on-site personnel training or retraining programs. The training and development component includes course work taught by the Department of Technology Education and is designed to address the key competencies identified by the American Society for Training and Development. The School of Engineering Technology provides the course work required to develop technical competency; students must select one of the following four technical competency concentrations: (1) Industrial/Manufacturing, (2) Computer Technology, (3) Construction Technology, or (4) Environmental Science. The first two years of the program are designed to be completed at a Community or Junior College, with all courses transferring into the four-year baccalaureate program in the School of Engineering Technology.

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Mechanical Engineering Technology

(Accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology)

Jack Lipscomb, Coordinator
Hattiesburg, MS 39406-5137
(601) 266-4896

The Mechanical Engineering Technology major emphasizes practical application of engineering principles to the design, operation, and testing of mechanical equipment and systems. Fields of study include robotics, solar energy, strength of materials, machine design, computer programming and applications, digital instrumentation, fluids, hydraulics, air conditioning design, manufacturing materials and processes, and personnel supervision. Students also develop competence in physics and applied mathematics. Graduates are able to solve problems involving the choice of materials, mechanical design, and selection of manufacturing process. Because of the large demand for technically educated men and women, Mechanical Engineering Technology graduates can expect to develop a rewarding, successful career in many employment settings such as industry, government, consulting, or service.

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Requirements for a Minor in Mechanical Engineering Technology

Students minoring in Mechanical Engineering Technology must complete ENT 110, ENT 240, MET 323 and an additional fifteen (15) hours of Mechanical Engineering Technology electives (ENT 330 and MET 420 are strongly recommended).

Pre-Engineering Curriculum

Cecil A. Harrison, Adviser
Hattiesburg, MS 39406-5137
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Pre-engineering provides the academic background required for transfer into an engineering school at the junior (third-year) level. The Pre-Engineering Coordinator designs each student's program to ensure that all course work can be transferred to the engineering program designated by the student. The engineering fields for which a USM student can prepare include, but are not limited to:

Aerospace Engineering
 Biomedical Engineering
 Chemical Engineering
 Civil Engineering
 Electrical Engineering

Geological Engineering
 Industrial Engineering
 Mechanical Engineering
 Nuclear Engineering
 Petroleum Engineering



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Department of Biological Sciences

Frank Moore, Chair
 Hattiesburg, MS 39406-5018
 (601) 266-4748

D. Anderson, G. Anderson, Bailey, Beckett, Bellipanni, Biesiot, Brouwer¹, Cibula³, Curry, Ellender, Hairston, Hawkins¹, Heard¹, Herron, Howell, Larsen, Lotz¹, Marykwas, Matlack, Middlebrooks, Miller⁴, Montcreiff¹, Norris, Overstreet¹, Payne⁴, Pennington², Peterson¹, Pessoney, Poss¹, Ross, Rosso, Santangelo, Scheetz, Shearer, Simons⁵, Solangi², Tornow, Walls, Wang, Yarbrough

(¹Gulf Coast Research Laboratory; ²Marine Life; ³Stennis Space Center; ⁴U.S. Army Engineers Waterways Experiment Station; ⁵U.S. National Park Service.)

The Department of Biological Sciences offers a choice of curricula leading to either the Bachelor of Arts or the Bachelor of Science degree in Biological Sciences. These curricula include the emphasis areas of Environmental Biology, Marine Biology, Microbiology, and Molecular Biology for students seeking preparation for careers in these specific fields of the biological sciences, as well as a general Biological Sciences curriculum for students seeking broader preparation. The latter curriculum, when combined with the required education courses and other specified electives, is also well suited for student seeking licensure as secondary school teachers of biological sciences. Students selecting the Microbiology or Molecular Biology emphases will complete the requirements for a minor in Chemistry. Students selecting the Environmental Biology, Marine Biology, and general Biological Sciences emphases are not required to complete a minor, although completion of one additional Chemistry course beyond those required for these emphasis areas will satisfy the requirements for a minor in Chemistry. The teacher licensure program in Biological Sciences includes a major in biological sciences and a minor in secondary education. It is an NCATE approved teacher education program. Detailed Pace Degree Plans for the various Biological Sciences emphasis areas are provided later in this Bulletin (see below for pages for specific emphasis areas). Information concerning the Master of Science and the Doctor of Philosophy degrees appears in the Graduate Bulletin. A student's choice of degree program and of curriculum should be determined in consultation with an adviser.

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Requirements for a Minor in Biological Sciences

Students minoring in Biological Sciences must complete eighteen (18) hours in biological sciences including at least seven (7) hours numbered 300 or above taken at The University of Southern Mississippi.

Gulf Coast Research Laboratory

The Department of Biological Sciences is allied with the Gulf Coast Research Laboratory in Ocean Springs. Faculty at both institutions actively participate in teaching and research activities at the Gulf Coast Research Laboratory. Summer coursework at Ocean Springs is strongly recommended for both undergraduate and graduate students.

Department of Chemistry and Biochemistry

Stella Elakovich, Chair
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Bateman, A. Bedenbaugh, J. Bedenbaugh, Bowen, Cannon, Creed, Elakovich, Evans, Fawcett, Griffin, Heinhorst, Howell, Hoyle, Khanna, McCain, McCormick, McMurtrey, Minn, Pojman, van Aller, Wertz, Whitehead

Chemistry majors work toward the Bachelor of Science degree. There are three emphasis areas that lead to this degree. These are the American Chemical Society (ACS) Certified Emphasis, the Biochemistry Emphasis, and the Chemistry Emphasis. All three emphases prepare students for careers in private industry or government and for admission to graduate programs in the chemical sciences, medicine, dentistry, and other science related, professional programs. For information about advanced degrees in chemistry at USM, please see the Graduate Bulletin. Licensure to teach secondary school chemistry may be obtained through the Chemistry Emphasis. Special characteristics of each emphasis area are noted below.

Chemistry majors must satisfy the general core requirements of the University and the College of Science and Technology. The semester hour requirement depends on the emphasis area studied. A minor is not required. Corresponding lecture and laboratory courses must be taken simultaneously. To enroll in a chemistry course, a student majoring in chemistry must have earned a grade of C or better in all prerequisite science and math courses. To graduate, a grade of C or better must be achieved in all courses counted toward the chemistry major. In obtaining the minimum grade of C in these courses, a student may not repeat any course more than once, nor may they repeat a total of more than three of these courses in attempting to satisfy this minimum grade requirement.

ACS Certified Emphasis in Chemistry

Students completing this emphasis are certified by the Committee on Professional Training of the American Chemical Society. They take a minimum of forty-nine (49) semester hours of chemistry course work. The mathematics and science courses must be taken with the pre- and/or co-requisites listed in this Bulletin. Key features of the curriculum are a requirement for physics with calculus (PHY 201/201L, 202/202L), mathematics through differential equations (MAT 385), and several senior level chemistry courses (CHE 411/411L, 431/431L, and 494 or 496) with physical chemistry as a pre-requisite. Students contemplating using this emphasis as preparation for admission to a professional school should consult with a pre-professional advisor about taking additional life sciences courses.

Biochemistry Emphasis

This emphasis requires a minimum of forty-three (43) semester hours of chemistry, including ten (10) hours of senior level biochemistry (CHE 421/421L, 422/422L), and twenty-four (24) hours of biological sciences. It provides an excellent preparation for medical or dental school because of its extensive life sciences content. Students contemplating using this emphasis as preparation for careers as chemists in industry or government or entry to graduate school in biochemistry or chemistry are strongly encouraged to take a full year of physical chemistry (CHE 461/461L and 462/462L).

Chemistry Emphasis

The advantage of this emphasis is its flexibility. The twenty-eight (28) hours of electives allow the student to take a minor or even a double major in many other academic areas. This emphasis requires a minimum of forty-two (42) semester hours of chemistry. It requires ten (10) semester hours of calculus but it does not require completion of physics with calculus (PHY 201/201L, 202/202L), although this is strongly encouraged. Students contemplating using this emphasis as preparation for admission to a professional school should consult with a pre-professional advisor about taking additional life sciences courses.

Secondary School Teaching Licensure

An option with the Chemistry Emphasis allows the student to obtain secondary teaching licensure meeting NCATE requirements in chemistry and general science.

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Requirements for a Minor in Chemistry

A minor in chemistry requires 21 hours of chemistry, with a grade of C or higher in each course. CHE 100, CHE 104, CHE 104L, CHE 251, CHE 251L, CHE 409, and CHE 410 will not count towards the 21 hours required for the minor.

Department of Computer Science and Statistics

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A. Ali, D. Ali, Bisland, Burge, Burgess, Carter, Cleek, Cobb, Etheredge, Garraway, Gregg, Huch, Miller, Paprzycki, Perkins, Rimes, Rodgers, Seyfarth, Simmons, VerBerkmoes

The Department of Computer Science and Statistics offers a flexible degree plan accredited by the Computing Sciences Accreditation Board. This program, offered under the CSC designation, allows students to select concentrations in specific areas such as Software Engineering, Database, Statistics, or Operations Research. Graduates of this program are prepared to begin professional careers in computer science or to pursue graduate studies. Students seeking a second degree in this program must satisfy all accreditation requirements. Under the CSS designation, the department offers a degree plan in computer science with an emphasis in statistics and many courses which are primarily service courses to the University community. The department also offers a teacher licensure degree program. In addition, a student who is licensed to teach in any secondary teaching area can earn "additional" licensure in computer education by completing the following courses: CSS 400, CSC 101/L, CSC 102/L, CSC 305, CSC 307, and TOE 465. For all programs, a grade of C or higher must be earned in required CSS and CSC courses. For information concerning the Master of Science degree in Computer Science, the Master of Science in Computer Science with an Emphasis in Computational Science, and the Doctor of Philosophy degree in Scientific Computing, please consult the Graduate Bulletin.

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Requirements for a Minor in Computer Science

The requirements for a minor in computer science include CSC 101, CSC 102 and 12 hours from among the following set of courses: CSC 101L, 102L, 203, 203L, 204, 204L, 300, 305, 306, 306L, 307, 308, 309, 320, 410, 410L, 411, 412, 413, 414, 414L, 415, 421, 422, 424, 425, 426, 435, 485, 486, CSS 240, 342, 343, 415, 416, 417, 418, 442.

Requirements for a Minor in Statistics

The requirements for a minor in statistics include CSS 211, CSS 212 and 12 hours from among the following set of courses: CSC 320, 422, 425, 435, CSS 240, 330, 340, 350, 415, 416, 417, 418, and IET 302. A maximum of 6 hours is accepted from the courses in the following list: CSS 240, 330, 340, 350.



Department of Geology

Gail Russell, Chair
 Hattiesburg, MS 39406-5044
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Cameron, Dunn, Meylan, Otvos¹, Patrick, Pope, Smith², Sundeen

(¹Gulf Coast Research Laboratory, ²U.S. Army Engineer Waterways Experiment Station.)

Geology is the science of the earth. It deals with processes within the earth and at the earth's surface which control landscape features, produce essential natural resources, and often result in geologic hazards. It is a science which seeks to understand the history of the earth through geologic time and to predict the results of human interaction with the natural environment. It is an interdisciplinary science and requires a foundation in mathematics, physics, chemistry, and biology.

The Department of Geology offers the Bachelor of Science degree. Graduates are prepared for careers in environmental geology and water resources, exploration and development of petroleum and other natural resources, marine geology, space geology, and many other areas. A program is offered which prepares students for secondary science teacher licensure. The M.S. in Geology at The University of Southern Mississippi and graduate programs at other universities provide advanced training in all of these areas and also prepare students for careers in research and teaching. The Bachelor of Science degree in Geology provides a strong foundation for students planning on graduate or professional school in areas such as marine science, environmental science, remote sensing, space science, and environmental law.

High School Preparation: High school students interested in careers in geology or related areas are encouraged to complete credits in biology, chemistry, physics, mathematics through second year algebra, solid geometry, and trigonometry.

Transfer Preparation: Students transferring into the Department of Geology from community colleges, other universities, or other programs should note the prerequisites for upper-level geology courses. Completion of GLY 101 and GLY 101L and at least one course in chemistry no later than the summer preceding the junior year is recommended.

Preparation for Secondary Education Licensure (General Science Teaching): The Department of Geology offers a Bachelor of Science degree program which leads to licensure in General Science and in Physical Science.

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Requirements for a Minor in Geology

Students seeking a Geology minor must complete eighteen (18) hours as follows: GLY 101, 101L, 103, 103L and ten (10) additional hours of geology courses.

Department of Mathematics

Wallace Pye, Chair
 Hattiesburg, MS 39406-5045
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Bell, Betounes, Caveny, Contreras, Davis, Ding, Doblin, Essary, Fay, Hornor, Kolibal, Mascagni, McDowell, Piazza, Putthoff, Redfern, Ross, Smith, Stuart, J. Thrash, K. Thrash, Walls, Webster

The Department of Mathematics offers a flexible curriculum for the baccalaureate degree, so that individual students may tailor their university mathematics programs to fit specific educational and career objectives. The Bachelor of Science degree in mathematics provides a sound foundation for a broad latitude of careers in education, industry, business and government. Most of today's challenging careers call for continuing education beyond the bachelor's degree, and an undergraduate major in mathematics provides a versatile avenue for preparing for advanced studies in a number of fields, including mathematics, computer science, statistics, management science, actuarial science, mathematics education and engineering.



Students who have completed a college preparatory program in high school should begin their university mathematics programs with MAT 178. Students without this background should elect appropriate mathematics courses in consultation with their academic advisers. Mathematics majors should take MAT 340 and 326 concurrently with the calculus sequence. They can receive advanced mathematics elective credit only for those courses taken after having successfully passed MAT 340 and 326 with a grade of C or better. No mathematics or computer science course in which a student receives a grade less than C will count toward the major. Those seeking secondary teacher licensure can substitute MAT 316 for MAT 326. Mathematics majors may not enroll in the courses MAT 102, 136, 137, 210, 308, 309, 310, 312, 314, 410, 430, or 431, which are designed to serve the special interests of students in other departments and colleges. They must include PHY 201 and 201L in their programs and cannot use the Fundamentals of Science courses to fulfill their science requirements. The mathematics faculty recommends that all majors include PHY 202 and 202L in their programs, and that they obtain two-year proficiency in one of the following languages: French, German, Italian, Russian.

The mathematics major who intends to pursue a career in actuarial science should include MAT 320, 418, 419, 420, 426, 460, and 461 in his/her program. In addition this student should elect REI 325 and 326, as well as a course in macroeconomics and a course in management.

The student who has earned a baccalaureate degree in mathematics with secondary teacher licensure can also receive additional licensure in a second area from the State Department of Education. Consult the chair of the department of the second area for the specific coursework.

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Requirements for a Minor in Mathematics

Any six courses (18 hours) that count toward the major in mathematics will satisfy the requirements for a minor in mathematics. A suggested minor is eighteen (18) hours selected from among the following courses: MAT 178, 179, 280; MAT 326, 340; and MAT 320, 385, or any courses selected from the upper level mathematics electives. Students seeking a minor in mathematics are encouraged to consult a faculty adviser in the Department of Mathematics.

Department of Medical Technology

M. Jane Hudson, Chair
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Beck, Byrd, Goodwin, Hall, Lux, Myers

A student majoring in the Department of Medical Technology should consult the PACE degree plan for required courses.

Admission to Junior Level Courses

A minimum GPA of 2.5 overall and a “C” or better in College Algebra, a second math (MAT 102 or other Calculus) and General Chemistry lectures and laboratories are required for entrance into MTC 300/300L. MTC 300/300L is a prerequisite or corequisite for all other MTC courses except MTC 101. Other prerequisites for MTC 302/302L, 306/306L, and 309/309L are stated in the course descriptions found in this catalog.

Progression in the Junior Year

A student must make a “C” or better in MTC 300, 300L, 302, 302L, 306, 306L, 309, and 309L. The department repeat policy for these courses is:

1. A student may repeat one junior-level MTC course, viz., MTC 300, 300L, 302, 302L, 306, 306L, 309, or 309L to improve the grade without permission from the department faculty.
2. A second repeat of junior-level courses will require specific permission of the faculty. To obtain permission, the student must present a justification in person before the faculty of the Department. A favorable majority vote of the faculty is required for permission to repeat and continue as a major.



Admission to the Senior Year

During the junior year, the student will apply to the department for admission to the senior year. Students should contact the Medical Technology Department for the application procedure. A minimum overall and science GPA of 2.3 is required before an application can be reviewed. Science courses used to calculate the science GPA include all BSC, CHE, MAT, CSS and MTC courses in the curriculum. Hepatitis vaccination, physical report, and professional liability insurance are required. Application completion, successful completion of all courses in the curriculum, and demonstration of qualities and attitudes which are necessary to develop as a competent professional are required. When qualified applicants exceed class size, selection will be based upon GPA. The senior year consists of two phases: Phase I, two semesters on The University of Southern Mississippi campus; and Phase II, a six-month clinical session at one of the affiliated hospitals. Preferences for hospital assignments will not be considered.

Progression in the Senior Year

Consult the Medical Technology Student Policy Manual for progression policies for the senior year.

Affiliated Hospitals

- Forrest General Hospital: Thrash, Williams**
- Gulf Coast Medical Center: Dellinger, Gandour**
- Memorial Hospital at Gulfport: Barnes, Gandour**
- Singing River Hospital: Holland, Magee**

Accreditation

The Department of Medical Technology is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Upon successful completion of the program, students receive the Bachelor of Science degree in Medical Technology and become eligible to take national certifying examinations given by recognized certifying agencies.

Language Proficiency

Regardless of courses taken previously, if English is not the native language of any student, evidence of English proficiency must be provided prior to admission into the senior year. The MTELP (Michigan Test of English Language Proficiency) requirement is "Proficiency II" and is preferred by the department. Alternately, a TOEFL of 550 may be accepted. In addition, a score of 4 ("functional language skills") must be earned on a fluency test administered by the English Language Institute. This fluency test is specifically designed to determine listening and speaking skills with respect to situations and language expected during the senior year of the program.

MLT Matriculation

MLT students who hold an Associate Degree from a NAACLS accredited MLT program and certification as a Medical Laboratory Technician (or equivalent) from a nationally recognized certifying agency are not required to take the junior level MTC courses, as long as their transcripts document equivalent courses taken as part of the community college program and a grade of "C" or above was obtained in each MLT course.

Master of Science Degree

For information on the Master of Science degree, please consult the Graduate Bulletin.

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Department of Physics and Astronomy

William E. Hughes, Chair
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Folse, Lee, Mead, Messer, Pandey, Rayborn, Sirochman, Whitehead

Mission Statement:

- To transmit, create and apply the knowledge and methods of physics through the avenues of teaching, research and service.
- To provide a quality Bachelor of Science in physics: to provide students with an understanding of the fundamentals of physics and foster in them a broad and intellectual viewpoint. Graduates of our program will be prepared for technical positions in industry, positions in government laboratories, and positions as high school physics teachers, as well as to pursue graduate study.
- To provide a quality Master of Science program in physics; to perform research in fundamental science by designing research problems, conducting research projects, and disseminating research findings.
- To provide leadership within the state of Mississippi in physics research through the participation of the faculty in pioneering pure and applied research, and the dissemination of the resulting new knowledge and methods.
- To serve the university and community by providing an understanding of scientific and technological issues facing society.

The department offers programs of study leading to the Bachelor of Science degree in Physics and the Master of Science degree in Physics, which may include options in Polymer Physics or Computational Science. Information relating to the MS degrees may be found in the Graduate Bulletin.

A baccalaureate program with an undergraduate major in physics with Secondary Teacher Certification is also provided. Students interested in physics teaching certification should seek advisement in the Department of Physics & Astronomy.

Leaflets giving outlines of undergraduate programs that will meet all departmental and University requirements are available from the Physics Department Office. Students planning to major or minor in physics should obtain these leaflets as soon as possible.

All physics majors are expected to perform research.

It is assumed that the high school mathematical preparation of entering freshman physics students includes algebra, geometry, and trigonometry.

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Requirements for a Minor in Physics

The Undergraduate Laboratory and Curriculum Committee of the Department of Physics and Astronomy recommend that a student desiring a minor in Physics take any courses totaling at least eighteen (18) hours in the physics curriculum with the exception of the following courses: PHY 103, 328, 392, 435, 451, 455, 460, 471, 485 and 499.

Department of Polymer Science

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Hattiesburg, MS 39406-0076
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Griffin, Guymon, Hester, Hoyle, McCormick, Mathias, Mauritz, Moore, Porter, Storey, Thames

The Department of Polymer Science offers programs of study leading to the degrees of the Bachelor of Science in Polymer Science, the Master of Science in Polymer Science, and the Doctor of Philosophy in Polymer Science. The Department was awarded Commendation status by the Board of Trustees in 1983 as a result of a state-wide five year program review. For information concerning the master's and Doctor of Philosophy degrees, see the Graduate Bulletin.



The objective of the undergraduate curriculum is to prepare the graduate to enter the industrial community or to continue his or her studies at the graduate level. The Bachelor of Science in Polymer Science constitutes an interdisciplinary program of study and, therefore, no minor is required. No polymer science course in which a student receives a grade less than "C" will count toward the polymer science major.

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Requirements for a Minor in Polymer Science

A minor in polymer science requires 18 hours of polymer science, with a grade of C or higher in each course. A student may choose 18 hours from the following: PSC 191, PSC 291, PSC 301, PSC 302, PSC 341L, PSC 342L, PSC 360, PSC 361, PSC401, PSC 402, PSC 450, PSC 450L, PSC470, PSC 470L, PSC 480, and PSC 492.

Forensic Science Program

Gerald A. Mattson, Director
Hattiesburg, MS 39406-0076
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Requirements for a Minor in Forensic Science

Students pursuing a minor in Forensic Science must complete a minimum of eighteen (18) hours. These hours must include FSC 341 and 341L and fourteen (14) hours of electives to be selected from the following courses: FSC 140, 140L, 340, 345, 345L, 430, 440, 442, 442L, 491, 491L, 497 (3 hours maximum), CHE 420, CHE 420L, MTC 300, and MTC 300L.