

## DEPARTMENT OF BIOLOGICAL SCIENCES

Dr. Charles J. Gagen, Head  
McEver Hall, Room 34D  
(479) 968-0294  
cgagen@atu.edu

Professors:  
Gagen, Kellner,  
Kirkconnell, Nupp, Stoeckel  
Associate Professors:  
Bowman, P. Cox, J. Jackson,  
G. Johnson, Lovely, Sparacino,  
Tedford, Wilkins, Yamashita  
Assistant Professors:  
Chaney, Merle, Still, Webb

The Department of Biological Sciences offers bachelor of science degree curricula in biology, an environmental option in biology, fisheries and wildlife science, health information management, and medical technology. In addition, an associate degree program in medical assistant is offered along with a minor in biology. Students interested in teaching biology at the secondary level should follow the suggested curriculum in Life Science and Earth Science for Teacher Licensure as outlined under the teacher licensure curricula, College of Education.

Each of the bachelor of science degree programs offered by the department, with the exception of medical technology and teacher licensure curricula, requires a total of 124 hours for graduation. The medical technology program requires a minimum of 131 hours for completion. Except for Allied Health Science programs (AHS), which adhere to grade policies recommended by certifying associations, no more than 12 hours of "D's" may be applied toward the degree. Students in the Department of Biological Sciences, except for AHS program majors, are required to take a common core consisting of: an orientation course; BIOL 1114, Principles of Biology; BIOL 2124, Zoology; BIOL 2134, Botany; BIOL 3034, Genetics; an Ecology course; a physiology course; and a seminar course. These same students are required to take MATH 1113, College Algebra, plus two additional math oriented courses above that level. Students should see individual degree programs for specific requirements. Courses in computer science, chemistry, and physics are also required.

Graduating seniors, except those in AHS programs, will be required to take the Major Field Assessment Test (MFAT) in Biology as part of the assessment plan for the department. Students will take the test during assessment week the semester of planned graduation.

### Biology

Dr. Bruce Tedford, Director  
McEver Hall, Room 209  
(479) 968-0362  
btedford@atu.edu

The baccalaureate degree program in biology is designed to prepare students for a wide range of career opportunities. It also provides a solid foundation for those wanting to pursue specialization at the graduate level. Specific course requirements are outlined in the curriculum in biology which follows; whereas, more general guidelines are in the previous section. Preprofessional courses are available to meet the requirements of students wishing to study medicine, dentistry, pharmacy, and related fields of specialization. (See pages 209 - 211 for more information).

Arkansas Tech University is affiliated with the Gulf Coast Research Laboratory (GCRL) at Ocean Springs, Mississippi. With prior departmental approval, Arkansas Tech University students may enroll in marine biology courses at GCRL, with the credits applied toward the biology degree at Arkansas Tech. This affiliation makes possible a concentration in marine biology.

**Curriculum in Biology**  
**Degree Completion Plan Beginning in Fall Semester**

Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3
BIOL 1011	1	BIOL 2124 or 2134	4	BIOL 2124 or 2134	4	BIOL 3034	4
BIOL 1114	4	Social Sciences <sup>1, T</sup>	3	CHEM 2124 <sup>T</sup>	4	CHEM 2134 <sup>T</sup>	4
MATH 1113 <sup>T</sup>	3	Any COMS <sup>T</sup>	3	Elective <sup>T</sup>	3	Biology Elective <sup>T</sup>	4
Social Sciences <sup>1, T</sup>	3	Physical Activity <sup>1, T</sup>	2	Math Elective <sup>2</sup>	3		
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15</b>
Junior		Senior					
Fall	Spring	Fall	Spring	Fall	Spring		
Math Elective <sup>2</sup>	3	Elective <sup>5, T</sup>	4	Fine Art/ Humanities <sup>1, T</sup>	3	Fine Art/ Humanities <sup>1, T</sup>	3
PHYS 2014	4	PHYS 2024	4	Physiology or Cellular Elective <sup>4</sup>	4	Physiology or Cellular Elective <sup>4</sup>	4
CHEM 3254	4	CHEM 3264	4	Biology Elective <sup>5</sup>	3-4	BIOL 4891	1
BIOL 3114 <sup>3</sup>	4	Biology Elective (3000-4000 level)	4	Elective <sup>5, T</sup>	6	Elective <sup>4, T</sup>	5
						Biology Elective <sup>4</sup>	3-4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16-17</b>	<b>Total Hours</b>	<b>16-17</b>

**Degree Completion Plan Beginning in Spring Semester**

Freshman		Sophomore					
Spring	Fall	Spring	Fall	Spring	Fall		
BIOL 1114	4	BIOL 1011	1	Social Sciences <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	BIOL 2124 or 2134	4	BIOL 3034	4
MATH 1113 <sup>T</sup>	3	BIOL 2124 or 2134	4	CHEM 2124 <sup>T</sup>	4	CHEM 2134 <sup>T</sup>	4
Social Sciences <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	Elective <sup>T</sup>	3	Biology Elective <sup>T</sup>	4
Physical Activity <sup>1, T</sup>	1	Physical Activity <sup>1, T</sup>	1	Math Elective <sup>2</sup>	3		
		Any COMS <sup>T</sup>	3				
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15</b>
Junior		Senior					
Spring	Fall	Spring	Fall	Spring	Fall		
Math Elective <sup>2</sup>	3	Elective <sup>5, T</sup>	4	Fine Art/ Humanities <sup>1, T</sup>	3	Fine Art/ Humanities <sup>1, T</sup>	3
PHYS 2024	4	PHYS 2014	4	Physiology or Cellular Elective <sup>4</sup>	4	Physiology or Cellular Elective <sup>4</sup>	4
CHEM 3254	4	CHEM 3264	4	Biology Elective <sup>5</sup>	3-4	BIOL 4891	1
BIOL 3114 <sup>3</sup>	4	Biology Elective(3000-4000)	4	Elective <sup>5, T</sup>	6	Elective <sup>4, T</sup>	5
						Biology Elective <sup>4</sup>	3-4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16-17</b>	<b>Total Hours</b>	<b>16-17</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 88.

<sup>2</sup>Six hours of mathematics above MATH 1113 (courses in the areas of statistics and calculus or statistics and biostatistics (FW 3173) are recommended).

<sup>3</sup>Coastal Ecology (BIOL 4094) which is offered during the May mini-term can serve as an alternative to BIOL 3114 in the Biology major.

<sup>4</sup>The physiology choices include: Human Physiology (BIOL 3074), General Physiology (BIOL 3124), Physiological Ecology (BIOL 3174) Endocrinology (BIOL 4014); whereas, choices in the area of cell or molecular biology include: Cell Biology (BIOL 4033), Molecular Genetics (BIOL 4074), Microbiology (BIOL 3054), Immunology (BIOL 4023). One in each area is required. Other alternatives must be approved by your advisor and Department Head. Each 3-hour selection in one of these areas must be balanced by 4-hours (rather than 3-hours) of biology electives.

<sup>5</sup>Sufficient courses at 3000-4000 level to constitute a total of 40 hours.

<sup>T</sup> Designates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

## Biology Environmental Option

The baccalaureate degree program in biological science includes an environmental option. This program offers a curriculum with the necessary courses in biology, chemistry, and earth science to provide an educational foundation for students interested in pursuing employment, consultation, or graduate studies in environmental protection and remediation.

### Curriculum in Biology (Environmental Option)

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall	Spring		Fall	Spring		Fall	Spring
BIOL 1114 <sup>T</sup>	4	BIOL 2124	4	ECON 2003 <sup>1, T</sup>	3	BIOL 2134	4
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>2, T</sup>	3	POLS 2003 <sup>1, T</sup>	3	BIOL 2111	1
CHEM 2124 <sup>T</sup> or BIOL 1004	4	CHEM 2134 <sup>T</sup> or CHEM 2124	4	BIOL 1004 or CHEM 2134	4	CHEM 2143	3
MATH 1113 <sup>T</sup>	3	SOC 1003 <sup>1, T</sup>	3	Statistics or Computer Science <sup>2, T</sup>	3	Statistics or Computer Science <sup>2, T</sup>	3
Physical Activity <sup>1, T</sup>	1	Physical Activity <sup>1, T</sup>	1	PHYS 2014 <sup>T</sup>	4	PHYS 2024 <sup>T</sup>	4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15</b>
Junior				Senior			
Fall	Spring		Fall	Spring		Fall	Spring
BIOL 3043 or CHEM 3353	3	ENGL 2053	3	CHEM 3353 or BIOL 3043	3	BIOL Elective (3000-4000 level)	4
BIOL 3124	4	BIOL 3114	4	BIOL 3054	4	BIOL 4024	4
CHEM 3254	4	BIOL 3111	1	BIOL 3034	4	BIOL 4111	1
Social Sciences <sup>1, T</sup> Elective <sup>4, T</sup>	3	CHEM 3264	4	Calculus <sup>3, T</sup>	3-4	Elective <sup>4, T</sup>	3-4
	3	Fine Art/Humanities <sup>1, T</sup>	3			Fine Art/Humanities <sup>1, T</sup>	3
<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14-15</b>	<b>Total Hours</b>	<b>15-16</b>
Degree Completion Plan Beginning in Spring Semester							
Freshman				Sophomore			
Spring	Fall		Spring	Fall		Spring	Fall
BIOL 1114 <sup>T</sup>	4	BIOL 1004 or 2134	4	BIOL 2124	4	BIOL 2134 or 1004	4
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	BIOL 2111	1	Social Sciences <sup>1, T</sup>	3
CHEM 2124 <sup>T</sup>	4	CHEM 2134 <sup>T</sup>	4	Statistics or Computer Science <sup>2, T</sup>	3	Statistics or Computer Science <sup>2, T</sup>	3
MATH 1113 <sup>T</sup>	3	SOC 1003 <sup>1, T</sup>	3	CHEM 2143	3	POLS 2003 <sup>1, T</sup>	3
Physical Activity <sup>1, T</sup>	1	Physical Activity <sup>1, T</sup>	1	PHYS 2024 <sup>T</sup>	4	PHYS 2014 <sup>T</sup>	4
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
Junior				Senior			
Spring	Fall		Spring	Fall		Spring	Fall
BIOL 3111	1	BIOL 3043 or CHEM 3353	3	BIOL 4111	1	CHEM 3353 or BIOL 3043	3
BIOL 3114	4	BIOL 3124	4	BIOL 3034	4	BIOL 3054	4
CHEM 3254	4	CHEM 3264	4	BIOL 4024	4	BIOL Elective(3000- 4000 level)	4
ECON 2003 <sup>1, T</sup>	3	ENGL 2053	3	Calculus <sup>3, T</sup>	3-4	Elective <sup>4, T</sup>	3-4
Elective <sup>4, T</sup>	3	Fine Art/Humanities <sup>1, T</sup>	3	Fine Art/Humanities <sup>1, T</sup>	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>	<b>Total Hours</b>	<b>15-16</b>	<b>Total Hours</b>	<b>14-15</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 88.

<sup>2</sup>Must have one statistics course and one computer science course. See catalog or advisor for alternatives.

<sup>3</sup>MATH 2914 is recommended if you are considering graduate school in this field. Furthermore, MATH 2924 should be considered for a general elective. Otherwise MATH 2243 is recommended.

<sup>4</sup>Recommended electives include: AGSS 2014, FW 4014, FW 4034, GEOL 1014, and 3153, POLS 2013 and 4103, or SPH 2003 (but also see the previous footnote, relative to calculus).

<sup>T</sup>Designates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

## Minor Biology

The minor in biology is available to students who wish to add to their knowledge of this increasingly important field for personal edification or for professional purposes, but choose not to complete a major in biology. The minor in biology requires 20 hours of courses:

BIOL 1014 Introduction to Biological Sciences or BIOL 1114 Principles of Biology

BIOL 2124 Principles of Zoology

BIOL 2134 Principles of Botany

\*BIOL Electives (8 hours of 3000 or 4000 level)

\*No more than one credit hour can be a seminar course

The fisheries and wildlife science program is a professional program designed to prepare qualified field and research biologists, as well as to provide a sound foundation for those students who intend to pursue graduate studies in wildlife biology, fisheries biology or field ecology. Through selection of appropriate elective courses, graduates are eligible for certification by The Wildlife Society or the American Fisheries Society. Field biologists are employed by various state and federal agencies concerned with natural resources management including the Arkansas Game and Fish Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Arkansas Department of Environmental Quality, National Park Service, and the U.S. Army Corps of Engineers. Employment opportunities in the private sector are also available. Timber, mining, and utility companies hire field biologists for advice and management of industrial lands. Environmental consulting firms, commercial fish and game farms, and nature centers require qualified researchers, technicians, and educators.

Majors in fisheries and wildlife science must complete a minimum of 124 semester hours as specified in the following curriculum outline. No more than 12 hours of "D's" may be applied toward the degree. Candidates for graduation are expected to complete a comprehensive series of practical and technical exams to assess mastery of program objectives.

### Curriculum in Fisheries and Wildlife Science Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	PHYS 1114 <sup>T</sup>	4
FW 1001	1	BIOL 2124	4	BIOL 2134	4	FW 3114	4
BIOL 1114	4	Social Sciences <sup>1, T</sup>	3	ENGL 2053 or FW 3084 or 3154 <sup>2</sup>	3-4	ENGL 2053 or FW 3144 <sup>2</sup>	3-4
MATH 1113 <sup>T</sup>	3	CHEM 1114 or 2124 <sup>T</sup>	4	Statistics or COMS <sup>3, T</sup>	3	Statistics or COMS <sup>3, T</sup>	3
Social Sciences <sup>1, T</sup>	3	Physical Activity <sup>1, T</sup>	2	CHEM 2204 or 3254 <sup>T</sup>	4		
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>17-18</b>	<b>Total Hours</b>	<b>14-15</b>
Junior		Senior					
Fall	Spring	Fall	Spring	Fall	Spring		
FW 3053	3	Social Sciences <sup>1</sup>	3	FW 4083	3	FW 4003	3
BIOL 4044 or FW 4014 <sup>4</sup>	4	BIOL 3004 or FW 4024 <sup>4</sup>	4	BIOL 3034 or FW (3000-4000 level) Elective <sup>4</sup>	4	BIOL 3034 or FW (3000-4000 level) Elective <sup>4</sup>	4
BIOL 3124 or Fine Art/ Humanities <sup>1, 6, T</sup>	3-4	BIOL 3174 or Fine Art/ Humanities <sup>1, 6, T</sup>	3-4	Elective <sup>T</sup> or FW (3000-4000 level) Elective <sup>5</sup>	4	Elective <sup>T</sup> or FW(3000-4000 level) Elective <sup>5</sup>	4
FW 3173 or a Calculus Course (MATH 2243)	3	SPH 2003 (or alternate) <sup>T</sup>	3	Fine Art/Humanities <sup>1</sup> or FW 4013 <sup>7</sup>	3	Fine Art/Humanities <sup>1</sup> or FW 4043 <sup>7</sup>	3
FW 3001	1	Elective <sup>T</sup>	3	Elective <sup>T</sup>	2	FW 4001	1
<b>Total Hours</b>	<b>14-15</b>	<b>Total Hours</b>	<b>16-17</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

## Fisheries and Wildlife Science

Dr. Joseph N. Stoeckel, Director  
McEver Hall, Room 30A  
(479)964-0852  
jstoeckel@atu.edu

## Curriculum in Fisheries and Wildlife Science

### Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore							
Spring	Fall	Spring	Fall	Total Hours					
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	CHEM 2204 or 3254 <sup>T</sup>	4	Total Hours	14
BIOL 1114	4	BIOL 2124	4	BIOL 2134	4	FW 3114	4		
MATH 1113 <sup>T</sup>	3	Social Sciences <sup>1, T</sup>	3	ENGL 2053 or FW 3144 <sup>2</sup>	3-4	FW 3084, 3154 or ENGL 2053 <sup>2</sup>	3-4	Total Hours	16
Social Sciences <sup>1, T</sup>	3	CHEM 1114 or 2124 <sup>T</sup>	4	Statistics or Computer Science <sup>3, T</sup>	3	Statistics or Computer Science <sup>3, T</sup>	3		
Physical Activity <sup>1, T</sup>	1	FW 1001	1	PHYS 1114 <sup>T</sup>	4			Total Hours	17-18
		Physical Activity <sup>1, T</sup>	1						
Total Hours		Total Hours		Total Hours		Total Hours		Total Hours	
Junior		Senior							
Spring	Fall	Spring	Fall	Total Hours					
Social Sciences <sup>1</sup>	3	FW 3053	3	FW 4003	3	FW 4083	3	Total Hours	16-17
BIOL 3004 or FW 4024 <sup>4</sup>	4	BIOL 4044 or FW 4014 <sup>4</sup>	4	BIOL 3034 or FW(3000-4000 level) Elective <sup>4</sup>	4	BIOL 3034 or FW(3000-4000 level) Elective <sup>4</sup>	4		
BIOL 3174 or Fine Art/Humanities <sup>1, 6, T</sup>	3-4	BIOL 3124 or Fine Art/Humanities <sup>1, 6, T</sup>	3-4	Elective <sup>T</sup> or FW(3000-4000 level) Elective <sup>5</sup>	4	Elective <sup>T</sup> or FW(3000-4000 level) Elective <sup>5</sup>	4	Total Hours	14-15
SPH 2003 (or alternate) <sup>T</sup>	3	FW 3173 or a Calculus Course (MATH 2243)	3	Fine Art/Humanities <sup>1</sup> or FW 4043 <sup>7</sup>	3	Fine Art/Humanities <sup>1</sup> or FW 4013 <sup>7</sup>	3		
Elective <sup>T</sup>	3	FW 3001	1	FW 4001	1	Elective <sup>T</sup>	2	Total Hours	16

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 88.

<sup>2</sup>Must have one taxonomic course (FW 3084, 3144, or 3154) and ENGL 2053.

<sup>3</sup>Must have one statistics course and one computer science course. See advisor for alternatives.

<sup>4</sup>These alternatives should result in one FW course and one BIOL course within the year.

<sup>5</sup>Must complete at least eight hours of FW electives to complete the degree, general electives can fill the balance of 124 hours

<sup>6</sup>Must have one "physiological" course and one "Fine Art/Humanities course1" within the year.

<sup>7</sup>Must have one "techniques" course and one "Fine Art/Humanities course1" within the year.

<sup>T</sup> Designates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university

## Allied Health Science Programs

The allied health science programs include a two-year curriculum in medical assistant and four-year curricula in health information management and medical technology. Statements and curricula for these programs are listed below.

### Health Information Management

Dr. Melinda Wilkins, Director  
1311 North El Paso, T5, Room C  
(479) 968-0441  
mwilkins@atu.edu

The degree program in health information management prepares the student for a professional career as an active member of the modern health-care team. In this age of increased computerization and data analysis, the health information management field is an exciting new area with virtually unlimited possibilities. The health information management administrator is an expert in the world of health record systems. He/she is responsible for obtaining complete health records for use in research; for gathering statistical information on which to base long-range health planning goals; for determining the legitimacy of requests for confidential medical information; for controlling the circulation and integrity of health records; and, as department head, is responsible for efficiency of the health information department employees in the performance of daily activities.

The health information department in a medical facility has in its care all the documentation regarding patient-care, physician as well as ancillary information. Responsibility for data validity and integrity play a major role in the health information profession. He/she must be progressive, conscientious, tactful, and knowledgeable, as much work is accomplished in cooperation with other allied health professionals.

Above all, the health information professional must adhere to the Code of Ethics of the American Health Information Management Association and to the appropriate institutional behavioral codes that apply.

Professional practice is scheduled at affiliated hospitals in nearby cities for a period of six hours per week during the fall and spring semesters for senior HIM majors. The management affiliation may be assigned to a hospital in a distant city for four weeks (40 hours per week) and normally occurs in the summer immediately following the senior year. Students are responsible for all transportation and lodging expenses during these assignments; however, every effort will be made to minimize such costs.

Students must make at least a "C" in each of the professional courses and demonstrate their proficiency in professional practice and management-affiliation. Upon successful completion of the program, the student is granted a Bachelor of Science degree in health information management and becomes eligible to write the national certification examination. The student already holding a baccalaureate degree may apply for the HIM program as specified in the Application Guidelines and work toward another baccalaureate degree provided the pre-professional course of study has been completed to establish eligibility to write the national certification examination. Registered health information technicians are urged to contact the Program Director for information regarding RHIA progression. The national certification examination is offered year-round by the American Health Information Management Association.

The application process for the Health Information Management Program is as follows:

1. Application for upper level professional HIM courses must be on file with the HIM Program Director by March 15th prior to the year you wish to take HIM courses.
2. To be eligible for application interview, the following must be on file: Application, current copy of all applicable transcripts, including current GPA of 2.5 on a 4.0 scale, and COMPASS/ACT scores.
3. Applicants may be required to complete an interview with an interview team. Consideration will be given to areas such as:
  - Dedication and perseverance
  - Aptitude
  - Knowledge of HIM profession
  - Professional appearance
  - Flexibility
  - Realistic career goals
  - True desire to enter HIM profession
  - Ability to finish HIM program within prescribed time
4. Candidates will be ranked based on GPA and number of prerequisite courses completed. The top twenty will be selected. A ranked order waiting list will be maintained by the HIM Program Director.
5. Candidates will be notified prior to pre-registration for the fall semester. If accepted, candidates must return a signed statement acknowledging acceptance. Candidates must register for courses indicated on the degree plan. Any change in degree plan requires approval of the student's HIM faculty advisor. Candidates must notify the program director of change in degree choice.

## Health Information Management Program Application Guidelines

6. A late application deadline of August 15th will be observed if positions are available. Late applicants will be notified as soon as possible or during the week of late registration.

7. If a candidate fails a course that would preclude graduation, or does not earn at least a "C" in HIM courses, reapplication to the HIM Program will be required.

The Health Information Management Program is accredited by the Commission on the Accreditation for Health Informatics and Information Management Education (CAHIIM) in cooperation with the American Health Information Management Association's Council on Accreditation.

### Curriculum in Health Information Management Suggested Sequence of Courses

Freshman				Sophomore			
Fall		Spring		Fall		Spring	
ENGL 1013 <sup>1, T</sup>	3	ENGL 1023 <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3
Elective <sup>2, T</sup>	2	BIOL 1014 <sup>1, T</sup>	4	MGMT 2013 <sup>T</sup>	3	COMS 2233 <sup>T</sup>	3
AHS 1023	3	Social Sciences <sup>1, T</sup>	3	BIOL 2004 <sup>T</sup>	4	CHEM 1114 <sup>1, T</sup>	4
Social Sciences <sup>1, T</sup>	3	MATH 1113 <sup>T</sup>	3	AHS 2013 or ACCT 2003 <sup>T</sup>	3	AHS 2013 or ACCT 2003	3
Physical Activity <sup>1, T</sup>	1	SPH 2003 <sup>T</sup>	3	Physical Activity <sup>1, T</sup>	1	Elective <sup>T</sup>	2
<b>Total Hours</b>	<b>12</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>15</b>
Junior				Senior			
Fall		Spring		Fall		Spring	
Fine Arts <sup>1, T</sup>	3	HIM 3153	3	HIM 4182	2	HIM 4073	3
Humanities <sup>1, T</sup>	3	HIM 4153	3	HIM 4063	3	HIM 4083	3
MGMT 3003	3	MGMT 4023 or HA/RP 4113	3	HIM 3043	3	HIM 4292	2
HIM 3023	3	HIM 3133	3	HIM 4983	3	HIM 4034	4
PSY 2053 <sup>T</sup>	3	HIM 3132	2	HIM 3033	3	MGMT 4013	3
				HIM 4092	2		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>
Senior 9th Semester							
Summer							
HIM 4895	5						
HIM 4892	2						
<b>Total Hours</b>	<b>7</b>						
<sup>1</sup> See appropriate alternatives or substitutions in "General Education Requirements" on page 88.							
<sup>2</sup> HIM 1001 recommended.							
<sup>T</sup> Designates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university							

## Medical Assistant

Phyllis Cox, Director  
Tucker Building, Room 17  
(479) 498-6073  
pcox@atu.edu

Medical assistants perform administrative and clinical duties under the direction of physicians in their offices or other medical settings. The medical assistant curriculum is a two-year associate of science degree program. This program offers the student a broad foundation in basic medical assisting skills including an externship in a medical facility under the supervision of clinic personnel and the Medical Assistant Program Director. Basic medical assistant training and education consist of learning experiences in communication skills, examination room procedures, clinical laboratory skills, and general office practices.

Admission to the second year of the program is on a competitive basis and is limited to 12 students a year. Students must make at least a "C" in each of the professional courses. A student is eligible for admission to the second year of the program upon completion of all prerequisites with an overall grade point average of at

least 2.00 on a 4.00 scale; presentation of evidence of good health; and satisfactory completion of a personal interview with the program director. If more than 12 students qualify for the second year of the program, they will be ranked by cumulative grade point average. Those not admitted in the first round of selection will be placed on a ranked waiting list.

Students enrolled in AHS 2034, AHS 2044, and AHS 2055 are required to carry malpractice liability insurance. A group insurance policy is arranged by the program director, but the premiums are paid by the student and are not included in the tuition and fees paid to the University.

The Arkansas Tech University Medical Assistant Program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org)) upon the recommendation of the Medical Assisting Education Review Board of the American Association of Medical Assistants Endowment (AAMAE). Students who successfully complete the associate degree program for medical assistants will be eligible to sit for the Certified Medical Assistant (CMA) examination.

### Curriculum in Medical Assistant

#### Suggested Sequence of Courses

Freshman		Sophomore					
Fall	Spring	Fall	Spring	Fall	Spring		
ENGL 1013 <sup>1</sup>	3	ENGL 1023 <sup>1</sup>	3	HIST 2003 or HIST 2013	3	AHS 2034	4
BIOL 1114 or 2124	4	PSY 2003	3	AHS 2023	3	AHS 2032	2
AHS 1023	3	PE 2513	3	AHS 2022	2	AHS 2053	3
MATH 1113 <sup>1</sup>	3	SPH 1003 or 2003	3	AHS 2013	3	HIM 4073	3
COMS 1003	3	COMS 2003	3	AHS 2044	4	BIOL 2004	4
				HIM 2033	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>18</b>	<b>Total Hours</b>	<b>16</b>
<b>Summer I</b>							
AHS 2055	5						
AHS 2061	1						
<b>Total Hours</b>	<b>6</b>						

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 88.

Arkansas Tech University, in affiliation with approved schools of medical technology, offers a four-year program leading to the bachelor of science degree and to certification as a medical technologist. The affiliated schools of medical technology are accredited by the Council on Medical Education and Hospitals of the American Medical Association.

The first three years of the curriculum are taught on the Tech campus and the fourth (professional) year is taught at one of the affiliated schools of medical technology. Admission to the professional year is on a competitive basis, and students must meet the admission standards of the medical technology school.

### Medical Technology

Phyllis Cox, Director  
Tucker Building, Room 17  
(479) 498-6073  
[pcox@atu.edu](mailto:pcox@atu.edu)

**Personnel with Medical  
Technology Affiliated  
Institutions**

*Baptist Medical System, Little Rock, Arkansas:* John E. Slaven, M.D., Medical Director, School of Medical Technology; Jennie Kyle, M.P.H., MT (ASCP) S.H., Program Director, School of Medical Technology.

*St. John's Regional Medical Center, Joplin, Missouri:* Margaret Janssen, M.D., Medical Director, School of Medical Technology. Karen Adkins, MA ED, MT (ASCP), Program Director, School of Medical Technology.

To qualify for the bachelor of science degree, the student must satisfactorily complete a minimum of 91 semester hours during the first three years of the program and 40 semester hours during the final professional year (52 weeks of class) at an affiliated medical technology school. The third year of the curriculum (30 semester hours) must include 20 semester hours in courses numbered 3000 or above, of which 4 semester hours must be in chemistry and 7 or 8 semester hours in biology. Also, the third year of the curriculum must be completed in residence at Arkansas Tech University.

Tuition and fees for courses taken the senior year at one of the affiliated medical technology schools will be assessed at the current rate charged by the affiliated school and are payable to Arkansas Tech University. Financial aid and scholarship arrangements are also made by Tech.

Upon successful completion of the final 40 hours at an affiliated medical technology school, a student is eligible for a bachelor of science degree, as well as being eligible to write the National Board Examination for licensure. This examination is given at various times throughout the year by the Board of Registry of the American Society of Clinical Pathologists.

**Curriculum in Medical Technology  
Suggested Sequence of Courses**

Freshman				Sophomore			
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
ENGL 1013 <sup>1</sup> T	3	ENGL 1023 <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	3	Social Sciences <sup>1, T</sup>	6
BIOL 1114 or BIOL 2124 T	4	BIOL 2004 T	4	PHYS 2014 T	4	PHYS 2024 T	4
BIOL 1011 T	1	CHEM 2134 T	4	BIOL 2023	3	COMS Elective <sup>2, T</sup>	3
CHEM 2124 T	4	MATH 1203 T	3	BIOL 2022	2	Fine Art/ Humanities <sup>1, T</sup>	3
MATH 1113 T	3	Physical Activity <sup>1, T</sup>	1	AHS 2013	3		
Physical Activity <sup>1</sup>	1						
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>
Junior				Senior			
				Unusual course category - 12 months			
BIOL 3054 T	4	Fine Art/ Humanities <sup>1, T</sup>	3	MEDT 4012-3	2-3	MEDT 4056-7	6-7
BIOL (3034, 3064, 4023 or 4033) <sup>3</sup>	7-8			MEDT 4029	9	MEDT 4064	4
CHEM (2204, 3245, 3254, 3264, 3344, or 4414) <sup>3</sup>	13-12			MEDT 4035	5	MEDT 4073	3
PSY 2003	3			MEDT 4048-9	8-9	MEDT 4081-2	1-2
<b>Total Hours</b>			<b>30</b>	<b>Total Hours</b>			<b>40</b>

<sup>1</sup>See appropriate alternatives or substitutions in "General Education Requirements" on page 88.  
<sup>2</sup>COMS 1003 or Alternate.  
<sup>3</sup>Must have a total of 12-13 hours of upper-level chemistry and 7-8 hours of upper-level biology and a total of at least 29 hours in the junior year to reach the required 91 hour total before entering the senior, off-campus, year.  
<sup>T</sup>Designates a block of courses that would provide for a seamless transfer into this program if equivalent courses are taken at another college or university