

# Health Sciences Division

**Mission Statement:** *The mission of the Health Sciences Division is to provide students with didactic education and practical experiences necessary to create a solid foundation for graduates to qualify as contributing members of their chosen profession.*

## Faculty

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**Faculty Emeritus**  
**Phil Arman**  
**1978-2007**

## **Description of Programs**

The Health Sciences Division offers the following certificate and degree programs:

### **Basic Emergency Medical Technology (Certificate of Proficiency)**

This program includes an introduction to anatomy and physiology, medical terminology, wound control, splinting, and moving patients. This course is required of all ambulance service personnel prior to employment and serves as a prerequisite to the EMT-Intermediate and Paramedic courses.

**Emergency Medical Services/Paramedic (A.A.S.)**

This program will advance Basic EMTs and EMT-Is to the next level recognized in Arkansas—the EMT-Paramedic. Employment opportunities include ambulance services and hospital emergency rooms.

**Health Information Technology (A.A.S.)**

Health Information Technology (HIT) prepares the student to perform tasks related to the use, analysis, presentation, abstracting, coding, storage and retrieval of healthcare data in manual or electronic form. Graduates are eligible to take a national certification exam to become a Registered Health Information Technician (RHIT).

**Medical Laboratory Technology (A.S.)**

Medical Laboratory Technology (MLT) is that branch of medical science employing chemistry, physics, and biology in the diagnosis, treatment, and follow-up of diseases. This program encourages men and women with an interest in science and a commitment to service to investigate this many-faceted career field.

**Phlebotomy (Technical Certificate)**

Due to the increase in the number and complexity of laboratory tests and the need to increase the efficiency and cost-effectiveness of detection, diagnosis and treatment of disease, phlebotomy has become a specialized area of practice. Graduates from this certificate program will be eligible to sit for national certifying exams.

**Professional Medical Coding (Technical Certificate)**

A professional medical coder transforms verbal descriptions of diseases, injuries, and procedures into alphanumeric designations. Upon completion of the program, graduates are eligible for entry-level positions as coders in hospitals, clinics, and a variety of other healthcare facilities. Graduates are eligible to take the National Certification Exam for Certified Coding Associate (CCA).

**Professional Medical Transcription (Technical Certificate)**

A professional medical transcriptionist is a medical language specialist who interprets and transcribes dictation by physicians and other healthcare professionals regarding patient assessment, work-up, therapeutic procedures, clinical course, diagnosis, prognosis, etc. in order to document patient care and facilitate delivery of healthcare services.

**Radiography (A.A.S.)**

This program prepares the student with the necessary technical skills of imaging and interpersonal patient care skills to qualify as contributing members in today's healthcare environment. Upon completion of the program, graduates are eligible to write the American Registry of Radiologic Technology examination to attain professional status as entry-level radiographers.

### **Recreational Leadership Program (A.A.S.)**

This program is designed to prepare students for jobs in the field of recreation. Students will develop an understanding of the concepts and the skills needed in commercial recreation and public recreation as they relate to a career.

### **Admission To All Health Science Programs**

Students seeking admission to a Health Science program must complete all general requirements for admission to National Park Community College. Admission to the College does not mean a student is admitted to a Health Science program.

Students seeking admission to any of the Health Science programs must also meet additional admission requirements. Each applicant must be approved by the respective program coordinator. Additional requirements exist for the Emergency Medical Service specified in this section. Students officially admitted to one of the College's Health Science Programs should be aware that there is a seven-year statute of limitation pertaining to the completion of required science and mathematics courses.

Refer to program-specific policies regarding readmission to Health Science programs.

### **Procedure for Application**

1. Contact the Health Science Division. All Health Science majors must have a Health Science advisor.
2. Forward an official high school transcript or G.E.D. certification.
3. Provide official transcripts from any college or university previously attended.
4. If the student applying is still in high school, provide a list of subjects planned for the senior year, and a transcript of the student's first six semesters. Official high school transcripts must still be provided following graduation.
5. All students submitting an application to the programs must provide ACT, SAT, ASSET, or COMPASS scores.
6. Attend a scheduled general information meeting.
7. Complete an interview with the assigned faculty advisor.
8. Provide the necessary health records.
9. No record of felony convictions.

### **Emergency Medical Services and Paramedic Program Requirements**

1. Be 18 years of age.

2. Supply a copy of their Arkansas Emergency Medical Technician certification.
3. Provide three letters of recommendation.

## Degree/Certificate Requirements

### Emergency Medical Services - Paramedic (A.A.S.) (69 SSCH)

The purpose of this program is to elevate, through a rigorous training program, entry level Basic Emergency Medical Technicians (EMT) to the classification of Paramedic (EMTP). The program is specifically dedicated to nurturing basic attributes in the EMS field: intelligence, self-awareness, the ability to relate to people, and a capacity for reasoned judgment under stress. The curriculum addresses these qualities through classroom lecture, in-hospital instruction, and direct patient care aboard an Advanced Life Support vehicle during a supervised field internship. After fulfilling the requirements outlined in this catalog, graduates are qualified to sit for both the Arkansas State and the National Registry Paramedic Exams. This program exceeds the standards set forth by the U.S. Department of Transportation EMS-Paramedic guide and the Arkansas EMTP Training Site requirements.

Individuals with this level of training commonly are recruited by ambulance companies in both the public and the private sector and due to recent state legislation, in hospital emergency departments.

Applications to the program are accepted for consideration from February 1 through June 30 prior to the academic year. The number of hours dedicated to paramedic instruction is approximately 1430.

Instructional time for this portion of the training is structured such that a prospective student could maintain a full-time job while enrolled.

The following is a list of required courses in sequential order for each of the degree/certificate programs offered by the Health Sciences Division.

#### Fall Semester

BIOL	2224	Anatomy & Physiology I	4
ENG	1113	English Composition I	3
MATH	1123	College Algebra OR	
MATH	1013	Math for General Education	3
PHIL	1133	Fundamentals of Ethics	3
PSYC	1103	General Psychology	3
*ORT	1101	Freshman Orientation	1
		<b>Subtotal</b>	<b>17</b>

<b>Spring Semester</b>				
BIOL	2234	Anatomy & Physiology II		4
ENG	1123	English Composition II		3
SOC	1103	Introduction to Sociology OR		
SOC	1603	Aging in America		3
CIS	1013	Information Systems I		3
		General Elective		3-4
		<b>Subtotal</b>		16-17
<b>Summer Semester</b>				
SPCH	1103	Fundamentals of Public Speaking		3
		<b>Subtotal</b>		3
<b>Fall Semester</b>				
ALH	1302	Introduction to Health Sciences		2
EMSP	1203	Emergency Respiratory Support		3
EMSP	1403	Pharmacology		3
EMSP	1601	Etymology		1
EMSP	1603	Emergency Patient Assessment		3
EMSP	2402	Anatomy & Physiology		2
		<b>Subtotal</b>		14
<b>Spring Semester</b>				
EMSP	1303	Emergency Cardiac Care		3
EMSP	2203	Medical-Surgical Emergencies		3
EMSP	2603	Advanced Cardiac Life Support		3
EMSP	2702	Advanced Medical-Surgical		
		Lab Simulations		2
EMSP	2802	Specific topics		2
		<b>Subtotal</b>		13
<b>Summer Semester</b>				
EMSP	2203	Clinical Practicum		3
EMSP	2403	Field Practicum		3
		<b>Subtotal</b>		6
		<b>Total Credit Hours</b>		64

**Note:** Admission to any of the above courses will require formal admission to the Paramedic Program by the National Park Community College Department of EMS. Arkansas State requirements include Arkansas EMT certification. Prerequisites to EMSP Courses: Students must complete the following courses prior to enrollment in EMSP classes: BIOL 2224, BIOL 2234, ENG 1113, ENG 1123, MATH 1013 OR MATH 1123. \*ORT 1101-Freshman Orientation is only required for full-time students.

**EMERGENCY MEDICAL TECHNICIAN - BASIC  
(CERTIFICATE OF PROFICIENCY) (7 SSCH)**

The certificate of proficiency for Emergency Medical Technician- Basic is designed to train individuals to rapidly recognize, assess, and treat medical and trauma-related emergencies. It is based on guidelines from the Department of Transportation and serves as a prerequisite to the EMT - Intermediate and Paramedic courses.

EMT	1501	Basic Life Support for Health Care Providers	1
EMT	1376	Emergency Medical Technician- Basic	6
		<b>Total Credit Hours</b>	<b>7</b>

**HEALTH INFORMATION TECHNOLOGY  
(A.A.S.) (64 SSCH)**

A health information technician performs a variety of functions including: organizing, analyzing and technically evaluating health information; compiling various administrative and health statistics; and coding diseases, operations, procedures and other therapies. They also maintain and use a variety of health information indexes, special registries and storage and retrieval systems; input and retrieve computerized health data; and control the use and release of health information. Graduates are eligible to take a national certification examination to become a Registered Health Information Technician (RHIT).

Prerequisites:

1. English score of Compass 75 - 100 or ACT score of 19 or equivalent
2. Reading score of Compass 82 -100 or ACT score of 19, or equivalent
3. Numerical skills score of Compass 41-100 or ACT score of 17 or equivalent.

**Fall Semester**

ALH	1203	Medical Terminology	3
CIS	1013	Information Systems I	3
AAS	Core*	Communication I Elective	3
AAS	Core*	Math Elective	3
BIOL	1114	General Biology +	4
		<b>Subtotal</b>	<b>16</b>

**Spring Semester**

HIT	1113	Health Data Content	3
BIOL	1224	Basic Human A&P +	4
HIT	1212	Legal Aspects of Health Information	2
HIT	2102	Health Statistics	2
CIS	2013	Information Systems II	3

		<b>Subtotal</b>	14
<b>+ Students may take EITHER: BIOL 1114 General Biology and BIOL 1224 Basic Human A&amp;P or A&amp;P I and II</b>			
<b>Summer Semester</b>			
ALH	1203	Medical Terminology	3
BIOL	1114	General Biology +	4
		<b>Subtotal</b>	<b>7</b>
<b>Fall Semester</b>			
HIT	1014	Basic Diagnostic and Procedure Coding	4
HIT	2002	Health Care Quality Management	2
HIT	2004	Fundamentals of Medical Science	4
HIT	2213	Computers in Health Care	3
HIT	2222	Directed Practice I	2
		<b>Subtotal</b>	<b>15</b>
<b>Spring Semester</b>			
HIT	2203	Reimbursement Methods	3
HIT	2402	Directed Practice II	2
HIT	2503	Supervision in HIT	3
HIT	2014	Intermediate Coding	4
		<b>Subtotal</b>	<b>12</b>
		<b>Total Credit Hours</b>	<b>64</b>

\*Students intending to transfer to a bachelor's degree program for Health Information Administration are advised to choose English Composition I & II, and College Algebra as their electives in communication and math.

+Students may take EITHER BIOL 1114 General Biology AND BIOL 1224 Basic Human A&P OR BIOL 2224 Anatomy & Physiology I AND BIOL 2234 Anatomy & Physiology II (note pre/co-requisites).

**ANY deviation from this list requires permission of the program director.**

### **MEDICAL LABORATORY TECHNOLOGY**

(A.S.) ( 68 SSCH)

The program is fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). NAACLS may be contacted at P.O. Box 75634, Chicago, IL 60675-5634, (773)714-8880, [www.naacls.org](http://www.naacls.org).

All MLT students must have successfully completed two years of high school algebra, or Intermediate Algebra at the College, prior to admission to the MLT program. They also must have successfully completed advanced high school biology or register for General Biology 1114 at NPCC.

A grade of “C” (2.0) or better average must be maintained in MLT courses. Only one grade of “D” (1.0) in all required chemistry and biology classes will be allowed for continuation in or completion of the MLT Program.

Because this is a specialized program, all courses required for the Associate Degree in Medical Laboratory Technology are accepted in transfer at selected institutions. Consult your advisor regarding the articulation agreement between NPCC and other institutions for further information.

#### Required Courses

ALH	1302	Introduction to Health Sciences	2
ENG	1113	English Composition I	3
ENG	1123	English Composition I	3
BIOL	2224	Anatomy and Physiology I	4
BIOL	2234	Anatomy and Physiology II	4
CHEM	1204	General Chemistry I	4
CHEM	2204	General Chemistry II	4
MATH	1123	College Algebra	3
MLT	1022	Serology/Immunology	2
MLT	1024	Hematology	4
MLT	2002	Introduction to Medical Laboratory Technology	2
MLT	2015	Pathogenic Microbiology	5
MLT	2024	Immunohematology	4
MLT	2032	Clinical Microscopy	2
MLT	2034	Clinical Chemistry	4
MLT	2114	Clinical Application Microbiology	4
MLT	2123	Clinical Application Immunohematology	3
MLT	2134	Clinical Application Chemistry	4
MLT	2154	Clinical Application Hematology	4
PSYC	1103	General Psychology	3
		<b>Total Credit Hours</b>	<b>68</b>

#### PHLEBOTOMY

##### (TECHNICAL CERTIFICATE) (34 SSCH)

Due to the increase in the number and complexity of laboratory tests and the need to increase the efficiency and cost-effectiveness of detection, diagnosis and treatment of disease, phlebotomy has become a specialized area of practice. A strong background in science is supplemented with communication and interpersonal skills, ethics and decision making, and professional growth in a structured series of courses. Graduates from this certificate program will be eligible to sit for national certifying exams.

**Fall Semester**

BIOL	1114	General Biology	4
ALH	1203	Medical Terminology	3
ALH	1302	Intro to Health Science	2
*ENG	1113	English Composition I	3
ORT	1101	Freshman Orientation	1
		<b>Subtotal</b>	<b>13</b>

**Spring Semester**

BIOL	1224	Basic Human Anatomy & Physiology	4
ENG	1123	English Composition II or	
SPCH	1103	Fundamentals of Public Speaking	3
MLT	2002	Introduction to Medical Laboratory Technology	2
*MATH		Math	3
		Elective	3
		<b>Subtotal</b>	<b>15</b>

**Summer Semester**

MLT	2006	Clinical Applications in Phlebotomy	6
		<b>Subtotal</b>	<b>6</b>
		<b>Total Credit Hours</b>	<b>34</b>

\* Level of course determined by proficiency demonstrated on placement tests.

+ Students may choose from Business Math, College Algebra or Mathematics for General Education

### **PROFESSIONAL MEDICAL CODING (TECHNICAL CERTIFICATE) (35 SSCH)**

Medical coding is the transformation of verbal descriptions of diseases and procedures into alphanumeric codes. The coding of health-related data permits access to medical records by diagnoses and procedures for use in clinical care research and education. Accurate coding is also required for reimbursement from Medicare and other insurance plans. Graduates are eligible to take the national certification exam to be a Certified Coding Associate.

Prerequisites:

1. English score of Compass 75 - 100 or ACT score of 19 or equivalent
2. Reading score of Compass 82 -100 or ACT score of 19, or equivalent
3. Numerical skills score of Compass 41-100 or ACT score of 17 or equivalent.

**Summer Semester**

ALH	1203	Medical Terminology	3
BIOL	1114	General Biology+	4
		<b>Subtotal</b>	<b>7</b>

**Fall Semester**

BIOL	1224	Basic Human A & P+	4
OFAD	1081	Medical Office Procedures	1
HIT	1014	Basic Diagnostic and Procedure Coding	4
HIT	2004	Fundamentals of Medical Science	4
<b>Subtotal</b>			<b>13</b>

**Spring Semester**

HIT	1113	Health Data Content	3
HIT	2203	Reimbursement Methods	3
HIT	2014	Intermediate Coding	4
CIS	1013	Information Systems I	3
<b>Subtotal</b>			<b>13</b>

**Summer Semester**

HIT	2703	Coding Practicum	3
<b>Subtotal</b>			<b>3</b>
<b>Total Credit Hours</b>			<b>36</b>

+Students may take EITHER BIOL 1114 General Biology AND BIOL 1224 Basic Human A&P OR BIOL 2224 Anatomy & Physiology I AND BIOL 2234 Anatomy & Physiology II (note pre/co-requisites)

**ANY deviation for this list requires permission of the program director.**

**PROFESSIONAL MEDICAL TRANSCRIPTION  
(TECHNICAL CERTIFICATE) (33 SSCH)**

A professional medical transcriptionist is a medical language specialist who interprets and transcribes dictation by physicians and other healthcare professionals regarding patient assessment, work-up, therapeutic procedures, clinical course, diagnosis, prognosis, etc. in order to document patient care and facilitate delivery of health care.

1. English score of Compass 75 - 100 or ACT score of 19 or equivalent
2. Reading score of Compass 82 -100 or ACT score of 19, or equivalent
3. Numerical skills score of Compass 41-100 or ACT score of 17 or equivalent.

**Summer Semester**

ALH	1203	Medical Terminology	3
BIOL	1114	General Biology+	4
<b>Subtotal</b>			<b>7</b>

**Fall Semester**

ALH	1303	Professional Medical Transcription	3
OFAD	1063	Word Processing I OR	
CIS	1013	Information Systems I	3
BIOL	1224	Basic Human Anatomy & Physiology+	4
HIT	2004	Fundamentals of Medical Science	4

		<b>Subtotal</b>	14
<b>Spring Semester</b>			
ALH	1603	Advanced Medical Transcription	3
HIT	1113	Health Data Content	3
OFAD	1133	Business English	3
OFAD	1081	Medical Office Procedures	1
		<b>Subtotal</b>	10
<b>Summer Semester</b>			
ALH	2102	Applied Medical Transcription	2
		<b>Total Credit Hours</b>	33

+Students may take EITHER BIOL 1114 General Biology AND BIOL 1224 Basic Human A&P OR BIOL 2224 Anatomy & Physiology I AND BIOL 2234 Anatomy & Physiology II (note pre/co-requisites)

**ANY deviation for this list requires permission of the program director.**

**Radiography  
(A.A.S.) (72 SSCH)**

This A.A.S. Degree is offered only to students who have been accepted into the program after meeting all requirements. Class size is mandated by clinical limitations; therefore, early completion of application forms is necessary. Applications for the two-year program are to be submitted from January through April, and classes begin each Fall Semester. Personal interviews may be required of students who are in the final steps of acceptance. Selection is based on previous educational history, recommendations of the Admission Committee, and other relevant requirements. Once accepted into the program, students must meet all college requirements for the Associate of Applied Science Degree, and they must maintain at least a 75% grade in all Radiography courses as listed in the Radiography Student Handbook. The student must perform at a grade level of “C” or better in Anatomy & Physiology, Medical Terminology, and Information Systems I.

ALH	1203	Medical Terminology	3
RAD	1302	Introduction to Radiography	2
ALH	1302	Introduction to Health Sciences	2
RAD	1403	Radiographic Procedures I	3
RAD	1703	Radiographic Procedures II	3
RAD	1803	Radiographic Procedures III	3
BIOL	2224	Anatomy & Physiology I	4
BIOL	2234	Anatomy & Physiology II	4
ENG	1113	English Composition I	3
ENG	1123	English Composition II	3

RAD	1802	Radiographic Exposure	2
RAD	1902	Radiation Protection & Biology	2
MATH	1123	College Algebra	3
RAD	2303	Radiation Physics	3
RAD	2503	Advanced Radiographic Procedures	3
CIS	1013	Information Systems I	3
PSYC	1103	General Psychology	3
RAD	2803	Radiographic Pathology	3
RAD	2903	Image Quality and Processing	3
RAD	2913	Radiography Seminar	3
RAD	1502	Clinical Education I	2
RAD	1512	Clinical Education II	2
RAD	1903	Clinical Education III	3
RAD	2603	Clinical Education IV	3
RAD	2703	Clinical Education V	3
RAD	2901	Clinical Education VI	1
		<b>Total Credit Hours</b>	<b>72</b>

## RECREATIONAL LEADERSHIP

### (A.A.S.) (60 - 62 SSCH)

Recreational leadership is designed to prepare the students for jobs in the field of recreation. The student will develop an understanding of the concepts and the skills needed in commercial recreation and public recreation as they relate to a career. The students will have an opportunity to see and experience jobs with the chamber of commerce, city, state, national parks, corps of engineers, and many forms of private recreational business. Approval for transfer of credits to other colleges should be in writing in advance to avoid disappointment.

### A.A.S. Degree Recreational Leadership

Communication Group One ( 3 Credits; select ONE course )

ENG	1113	English Composition I	
ENG	1133	Technical Report Writing	
OFAD	1133	Business English	

Communication Group Two ( 6 Credits; select ONE course )

SPCH	1103	Speech	** Required **	3
ENG	1123	English Composition II		3

Computer Literacy Group Three( 3 Credits; )

CIS	1001	Introduction to Computing I		1
CIS	1011	Introduction to Computing II		1
CIS	1501	Introduction to Internet		1

Social Science Group Four ( 3 Credits; select one course)

HIST	2223	U.S. History I
HIST	2233	U.S. History II
HIST	2203	Western Civilization I
HIST	2213	Western Civilization II
PSYC	1103	General Psychology
SOC	1103	Intro to Sociology
POLS	1113	American National Government
POLS	1123	State & Local Government

Mathematics Group Five ( 3 credits; select One Course)

MATH	1013	Math for General Education
MATH	1123	College Algebra
OFAD	1053	Business Math with Calculators
MATH	1103	Technical Math

There are no prerequisites for Recreational leadership classes

Recreation BLOCK Group Six \*\* Required\*\*

HPR	1211	Recreational Programming I **	1
HPR	2211	Recreational Programming II **	1
HPR/PE		PE or Recreational Activities **	1
HPR/PE		PE or Recreational Activities **	1
HPR	2003	Adventure Games & Group Problem Solving **	3
HPR	2203	Fundamentals of Recreation **	3
HPR	2213	Marketing for Leisure Services **	3
HPR	1703	Leadership in Recreation, Hospitality, and Tourism **	3
HPR	2403	Commercial Recreation, Tourism and Hospitality Enterprises **	3
PE	1113	Health & Safety **	3
HPR	1803	Promotion & Production of Special Events **	3
HPR	1102	Life Fitness Concepts **	2
PE	1113	Personal Safety & First Aid **	3
HPR	2406	Field Placement Experience **	6

Selected electives BLOCK select 6 credit hours

See Program Director for approval of selected electives 6

**Total Hours 60 - 62**