

Department of

Health Science**Lynn Perkes, Department Chair**

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<http://www.byui.edu/healthsci/>

<http://www.byui.edu/paramedicine/>

Adjunct Faculty, Health Science:

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Adjunct Faculty, Paramedicine:

Dr. Curtis Sandy (Medical Director), Cody Anderson, Kathy Bergstrom, Alan Brower, Kimber Dameron, Todd Davis

The Health Science Department offers educational options that prepare students for a wide variety of careers in the public, community, private, and industrial settings. Students choose from the following degree offerings:

The Bachelor of Science Degree in Health Science includes a core set of health and related classes common for all students and three different emphasis areas to choose from: Public Health, Occupational Safety & Health, and Community and Worksite Wellness. For students who are not Health Science majors, a minor in Health Science is also offered.

- Public Health: Prepares students to work in the Public Health, non profit or government sector in promoting, protecting, and preserving the health of a population and the governmental actions to accomplish these tasks. Program prepares students to take the Certified Health Education Specialist (CHES) examination offered through the National Commission on Health Education Credentialing, INC.
- Occupational Safety and Health: Students are trained in the practice of anticipation, recognition, evaluation, and control of safety and health hazards found in the work environment. They will be prepared to enter business and industry as safety, industrial hygiene and environmental professionals. Students are also prepared for graduate programs in Industrial Hygiene and Safety.

- Community and Worksite Wellness: Prepares students theoretically and experimentally for health related career opportunities. These include community health educator, health promotion specialist, worksite wellness specialist, health counseling, wellness coaching, resort wellness, fitness center, lifestyle training specialist, etc. Health Science students headed to graduate programs in Physical Therapy and Occupational Therapy usually select this emphasis. Some students may also be eligible to take the CHES exam.

The Bachelor of Science Degree in Healthcare Administration prepares students to directly enter the workforce as administrators/managers of healthcare facilities such as medical group practice, urgent care centers, long-term care facilities, department-level positions in hospitals, ambulatory surgery centers, skilled nursing facilities, health insurance companies, etc. This degree also is a solid path for those seeking to pursue a master's degree in Hospital Administration or Business Management.

The Associate Degree of Applied Science in Paramedicine program: see specific details about this program before the Paramedic course descriptions.

The Bachelor of Science in Emergency Services Administration : see specific details about this program before the Paramedic course descriptions.

The minor in Emergency Services Management is an attractive option for those management majors not pursuing a paramedicine venue.

The Associate Degree of Applied Science in Medical Assisting: see specific details about this program before the Medical Assisting course descriptions.

A minor in Health Education is offered for students pursuing a degree in secondary education. Under the requirements for the State of Idaho teacher certification, a student majoring in secondary education must be qualified to teach in a minor subject. The Health Education minor consists of 20 credits that will prepare you to teach health for grades 6-12. Course work also prepares you for the health education praxis exam.

AAS in Paramedicine (356)

Take required Foundations courses

Major Requirements

No Double Counting of Major Courses

<i>Take these courses:</i>		<i>Cont. from previous column</i>	
BIO 264	4	PARA 274	1
BIO 265	4	PARA 280	3
CHEM 101	4	PARA 285	1
PARA 181	7	PARA 291	1
PARA 241	1	PARA 292	1
PARA 242	1	PARA 360	6
PARA 250	1	PARA 370	3
PARA 251	1	PARA 378	6
PARA 256	1	PARA 387	1
PARA 257	1	PARA 488	3
PARA 262	1	PARA 498	1-6
PARA 264	1		54
<i>Cont. next column</i>			

Program Notes:

Total Major Credits=54

This major is available on the following tracks:

Fall-Winter---- NO

Winter-Spring---- YES

Spring-Fall---- NO

AAS in Medical Assisting (361)

Take required Foundations courses

No Double Counting of Major Courses

<i>Take these courses:</i>		<i>Take 6 credits:</i>	
BIO 264	4	B 220	3
BIO 265	4	B 370	3
ENG 316	3	ECON 112	3
HS 222	3	HFED 100	3
HS 280	2	HS 285	3
MA 105	3	HS 320	3
MA 105L	2	HS 340	3
MA 106	2	HS 460	3
MA 107	4		6
MA 111	3		
MA 205	3		
MA 205L	1		
MA 298	2		
PSYCH 111	3		
	39		

Program Notes:

Students must achieve a grade of C- or higher in all major required courses.

Total Major Credits=45

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

BS in Emergency Services Administration (475)

Take required Foundations courses

Major Requirements

No Double Counting of Major Courses

<i>Take these courses:</i>		<i>Cont. from previous column</i>	<i>Take 1 course:</i>		<i>Take these courses:</i>	<i>Program Notes:</i>
BIO 264	4	PARA 292	ACCTG 180	3	PARA 494	
BIO 265	4	PARA 360	ACCTG 201	<u>3</u>	PARA 495	
CHEM 101	4	PARA 370		3	PARA 496	
PARA 181	7	PARA 378			PARA 497	
PARA 241	1	PARA 387	<i>Take 1 course:</i>			
PARA 242	1	PARA 488	GS 107	1		
PARA 250	1	PARA 498	RM 223 A-F, J, K	2		
PARA 251	1		RM 223 G	<u>4</u>		
PARA 256	1			1		
PARA 257	1		<i>Take these courses:</i>			
PARA 262	1		B 370	3		
PARA 264	1		MA 106	2		
PARA 274	1		PARA 171	5		
PARA 280	3		PARA 199	3		
PARA 285	1		SOC 357	<u>3</u>		
PARA 291	1			16		
<i>Cont. next column</i>						

Total Major Credits=80

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

BS in Health Science Emphasis in Public Health (750-39)

Take required Foundations courses

No Double Counting of Major Courses - No Grade Less Than C-

<i>Take these courses:</i>		<i>Take 1 course:</i>	<i>Take these credits:</i>		<i>Take 7 credits:</i>	<i>Program Notes:</i>
BIO 264	4	BIO 265	HFED 100	3	BIO 221	
HS 320	3	CHEM 101 (or higher)	HS 310	3	BIO 222	
HS 340	3		HS 401	2	HS 222*	
HS 370	3		HS 420	2	HS 280*	
HS 390	3	<i>Take 1 course:</i>	HS 460	<u>3</u>	HS 305	
HS 391	2	ENG 316		13	HS 331	
HS 472	3	COMM 102	<i>Take 1 course:</i>		HS 351	
HS 498	<u>1-3</u>		HS 285	3	HS 430	
	22		HS 360	<u>2</u>	HS 450	
		<i>Take 1 course:</i>		2	HS 480	
<i>Take 1 course:</i>		HS 222			HS 485	
HS 131	2	HS 223				
HS 331	<u>3</u>	HS 280				
	2					

Total Major Credits=55

This major also requires a minor or 2 clusters

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

Health Science

Brigham Young University-Idaho 2009-2010

**BS in Health Science
Community & Worksite Wellness Emphasis (750-101)**

Take required Foundations courses

No Double Counting of Major Courses - No Grade Less Than C-

Take these courses: BIO 264 4 HS 320 3 HS 340 3 HS 370 3 HS 390 3 HS 391 2 HS 472 3 HS 498 1-3 22 Take 1 course: HS 131 2 HS 331 3 2	Take 1 course: BIO 265 4 CHEM 101 (or higher) 4 4 Take 1 course: ENG 316 3 COMM 102 3 3 Take 1 course: HS 222 3 HS 223 3 HS 280 2 2	Take these courses: ESS 375 3 HFED 100 3 HS 305 3 HS 365 3 HS 401 2 HS 420 2 16	Take 6 credits: B 247 3 HFED 330 3 HFED 350 3 HS 331 3 HS 349 3 HS 349L 1 HS 351 2 HS 355R 1-3 HS 455R 1-2 HS 460 3 HS 480 3 HS 486 3 6	Program Notes: *Not currently taught.
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Total Major Credits=55

This major also requires a minor or 2 clusters

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

**BS in Health Science
Occupational Safety & Health Emphasis (750-102)**

Take required Foundations courses

No Double Counting of Major Courses - No Grade Less Than C-

Take these courses: BIO 264 4 HS 320 3 HS 340 3 HS 370 3 HS 390 3 HS 391 2 HS 472 3 HS 498 1-3 22 Take 1 course: HS 131 2 HS 331 3 2	Take 1 course: BIO 265 4 CHEM 101 (or higher) 4 4 Take 1 course: ENG 316 3 COMM 102 3 3 Take 1 course: HS 222 3 HS 223 3 HS 280 2 2	Take these courses: HS 310 3 HS 450 3 HS 485 3 HS 486 3 HS 487 3 15 Take 7 credits: B 370 3 CONST 320 2 HS 384 2 HS 484 2 HS 488 2 7	Program Notes:
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Total Major Credits=55

This major also requires a minor or 2 clusters

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

BS in Healthcare Administration (752)

Take required Foundations courses

No Double Counting of Major Courses

<i>Take these courses:</i>		<i>Take these courses:</i>		<i>Program Notes:</i> *Not currently taught.
B 201	3	HS 285	3	
B 220	3	HS 345	3	
B 370	3	HS 375	3	
CIT 380	3	HS 378	3	
ECON 112	3	HS 425	3	
ECON 300	3	HS 465	3	
HS 280	2	MA 106	2	
HS 370	3		20	
HS 390	3			
HS 391	2			
HS 498	1-3			
	29			
<i>Take 1 course:</i>				
ACCTG 180	3			
ACCTG 201	3			
	3			

Total Major Credits=52

This major also requires a minor or 2 clusters

This major is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

Health Science Minor (123)

Minor Requirements

No Grade Less Than C- for Minor Courses

<i>Take these courses:</i>		<i>Take 6 credits:</i>		<i>Program Notes:</i>
HS 310	3	HS 305	3	
HS 320	3	HS 349	3	
HS 340	3	HS 349L	1	
HS 370	3	HS 351	2	
HS 390	3	HS 355R	1-3	
	15	HS 360	2	
<i>Take 1 course:</i>		HS 365	3	
HS 131	2	HS 401	2	
HS 331	3	HS 420	2	
	2	HS 450	3	
<i>Take 1 course:</i>		HS 460	3	
HS 222	3	HS 472	3	
HS 223	3	HS 480	3	
HS 280	2	HS 484	2	
	2	HS 485	3	
		HS 486	3	
		HS 487	3	
		HS 488	2	
			6	

Total Minor Credits=25

This minor is available on the following tracks:

Fall-Winter---- YES

Winter-Spring---- YES

Spring-Fall---- YES

Health Science

Brigham Young University-Idaho 2009-2010

Health Science Pre-approved Clusters

Health and Wellness		Emergency Care	
<i>Take these courses:</i>		<i>Take these courses:</i>	
HS 420	Health Behavior Theories	2	
HS 472	Health Communications	3	
HFED 100	Essentials of Human Nutrition	3	
<i>Take 1 course:</i>		<i>Take 1 course:</i>	
HS 100	Introduction to Health Professions	1	
HS 131	Personal Health Wellness	2	
HS 331	Women's Health Issues	3	
<i>Take 1 course:</i>		<i>Take 1 course:</i>	
HS 222	Advanced First Aid	3	
HS 223	Wilderness First Aid	<u>3</u>	
Total Credits			13
Industrial Health		Public Health	
<i>Take these courses:</i>		<i>Take 1 course:</i>	
HS 310	Environmental Health	3	
HS 485	Toxicology	3	
HS 486	Occupational Safety and Risk Management	3	
HS 487	Introduction to Industrial Hygiene	<u>3</u>	
Total Credits			12
Sports Medicine		Emergency Care	
<i>Take these courses:</i>		<i>Take these courses:</i>	
BIO 265	Anatomy & Physiology II	4	
HS 349	Sports Medicine	3	
HS 349L	Sports Medicine Lab	1	
HS 355R	Athletic Training Clinical Experience	1-3	
HS 365	Kinesiology	<u>3</u>	
Total Credits			13

Course Descriptions**Credits*****HS 131 Personal Health & Wellness****(2.0:2:0)**

The course focuses on the health and wellness of individuals. Generations of people have viewed health simply as the absence of disease. Beyond the simple presence or absence of disease, wellness refers to optimal health and vitality - to living life to its fullest. That view largely prevails today; the word health typically refers to the overall condition of a person's body or mind and to the presence or absence of illness or injury. While there are some factors beyond one's control, wellness is largely determined by the decisions you make about how you live.

(Fall, Winter, Spring)

HS 222 Advanced First Aid**(3.0:3:0)**

First Aid is the immediate care given to a person who has been injured or who suddenly becomes ill. It includes self-help and home care if more advanced medical assistance is not needed or is delayed. In Advanced First Aid, the student is trained to provide emergency medical care in a wide range of acute care situations. There will be many opportunities for hands-on simulated training throughout the course of this class. At the successful completion of this course, each qualifying student will receive a First Aid card and a CPR Certification card.

(Fall, Winter, Spring)

HS 223 Wilderness First Aid**(3.0:3:0)**

Fee: \$13.00

First Aid is the immediate care given to a person who has been injured or suddenly becomes ill. Wilderness First Aid teaches protocols followed if a person is more than two hours from advanced medical support. This does not always have to be in a wilderness setting. Many times natural disasters will place individuals in situations where accessibility to advanced medical support is greatly limited or non-existent. At the completion of this course, the student will receive national certification in Wilderness First Aid & CPR. There will be one overnight or late night field trip during the semester to engage in a mock First Aid activity.

(Fall, Winter, Spring)

HS 280 Medical Terminology**(2.0:2:0)**

This class is an introduction course into the language of medicine.

(Fall, Winter, Spring)

HS 285 Hospital & Health Administration**(3.0:3:0)**

There are twelve focuses for this course, each listed in the course outline. They are designed to introduce students to the possibility of pursuing a career in healthcare administration. Materials for the course are drawn from a variety of publications and electronic courses. Each participant will be provided a CD-Rom copy of the course materials and syllabus.

(Fall, Winter, Spring)

HS 299 Professional Experience Seminar**(1.0-3.0:0:0)**

This class is designed to offer credit to students ready for "hands-on" experience in helping with teaching, recording, and organizational experiences. Credit is to be determined according to the workload arranged by the student and the supervising professor.

(Fall, Winter, Spring)

HS 300 Environmental Health for Secondary Teachers**(3.0:3:0)**

Introduction to the field of environmental health. This course investigates the impact on our environment of water pollution, air pollution, solid and hazardous waste, resource recovery and reuse energy sources, and population and how the environment impacts personal health. It is designed to prepare teachers for classroom teaching.

(Fall)

HS 305 Health and Fitness Appraisal & Prescription**(3.0:3:0)**

Fee: \$25.00

Prerequisite: BIO 264 and BIO 265.

Methodologies and techniques for evaluations of health and fitness values including body composition, maximal oxygen consumption, antropometric measurements, blood values, blood pressure, stress, nutrition, posture, lifestyle habits, etc. Principles of health and fitness program prescription based on individual values and recommended improvements.

(Fall, Winter, Spring)

HS 310 Environmental Health**(3.0:3:0)**

Environmental health comprises those aspects of human health including quality of life that are determined by physical, biological, social, and psychosocial factors in the environment. This course provides a concise knowledge base of how our environment including air, water, food, and environmental agents may affect human health.

(Fall, Winter, Spring)

HS 320 Introduction to Communicable and Non-Communicable Diseases**(3.0:3:0)**

Introduction to the general principles of disease. This course has been designed for the allied health science students. Etiology, signs, symptoms, treatment and management of diseases that affect individuals and their various body systems are examined.

(Fall, Winter, Spring)

HS 331 Women's Health**(3.0:3:0)**

This class is designed for the advanced study of women's physical, emotional and social well being in today's society, including healthful practices, at risk behaviors and learning to maintain a healthy lifestyle.

(Fall, Winter, Spring)

HS 340 Introduction to Community Health**(3.0:3:0)**

Introduction to agencies, facilities, and programs playing a role in the prevention of disease and the promotion of health in the community. Special emphasis is placed on the competencies needed for community health professionals and health educators to function in a variety of community and teaching settings.

(Fall, Winter, Spring)

HS 345 Healthcare Finance**(3.0:3:0)**

Prerequisite: HS 285, Acctg. 180 or 201, B 301

Introduction to Healthcare Finance for Healthcare Administration majors who contemplate careers in administration - hospitals, ambulatory surgical centers, specialty hospitals, integrated health systems, long-term care facilities and medical group practices.

(Fall, Winter, Spring)

HS 349 Sports Medicine**(3.0:3:0)**

Designed for health professional students i.e. athletic trainers, coaches, health and physical educators, physical therapists, EMT's and premedical students as an introduction to sports medicine professional development and responsibilities, injury prevention and risk management, and injury management.

(Fall, Winter, Spring)

HS 349L Sports Medicine Lab**(1.0:0:2)**

Fee: \$35.00

Injury prevention, examination, and treatment techniques will be presented i.e. taping/bracing, tests and measures, and use of therapeutic modalities.

(Fall, Winter, Spring)

HS 351 Gerontology**(2.0:2:0)**

This class is designed to include the scientific study of the biological, psychological, and social aspects of aging.

(Fall, Winter, Spring)

HS 355R Athletic Training Clinical Experience**(1.0-3.0:0:0)**

Prerequisite: HS 349L

May be repeated for a maximum total of 5 credits with no more than 3 credits per semester. Thirty contact hours are required for each credit. The contact hours per week to be arranged with instructor. Practical application and clinical experience in health skills and use of therapeutic modalities. A maximum of 3 credits will apply toward graduation.

(Fall, Winter, Spring)

HS 360 Community and Public Health Administration**(2.0:2:0)**

This course is an introduction to the functions of the local public health department and the state and federal public health agencies that provide guidance and funding. Administrative functions such as strategic planning, budgeting, leadership and ethics in public health are introduced. In-depth and real life, information relative to the actual programs and services provided by the local health department are presented in the context of the core functions and essential services of public health.

(Fall, Winter)

HS 365 Kinesiology**(3.0:3:1)**

Prerequisite: BIO 264

Study of functional anatomy with application of basic kinesiological and biomechanical principles in the analysis of human structure and movement.

(Fall, Winter, Spring)

Health Science

Brigham Young University–Idaho 2009-2010

- HS 370 Epidemiology (3.0:3:0)**
Prerequisite: FDMAT 221, 222, 223 (FDMAT 222 is strongly recommended).
The study of the distribution of diseases and pathophysiological conditions of humans and of factors which influence their occurrence. The course requires an understanding of the statistical principles.
(Fall, Winter, Spring)
- HS 375 Managing Healthcare Provider Organizations (3.0:3:0)**
Prerequisite: HS 285
This course is designed to introduce Healthcare Administration majors to the specific issues and body of knowledge pertaining to the management of: hospitals, specialty hospitals, ambulatory surgery centers, medical group practices, and long-term care facilities. Emphasis is placed on guest lectures by professionals from each of these types of provider organizations.
(Fall, Winter, Spring)
- HS 378 Healthcare Strategy (3.0:3:0)**
Prerequisite: HS 285
This course is designed for Healthcare Administration majors and focuses on 1) leadership and 2) management methods and strategies. Part 2 utilizes case studies to illustrate important skills and methods.
(Fall, Winter, Spring)
- HS 384 Industrial Fire Safety (2.0:2:0)**
This class will introduce you to basic standards for managing fire protection and life safety systems for different occupancies. We will explore sound practices for managing fire protection, prevention and life safety systems and the code requirements that govern them.
(Winter)
- HS 390 Program Planning and Implementation (3.0:3:0)**
Provides both a theoretical framework for and skill development in organizing, planning, implementing, and evaluating community health interventions. Key topics include: planning models, assessing community needs, intervention theories, implementation practices, health communication, presentation strategies, and budgeting. Meets some requirements for preparation to take the CHES exam.
(Fall, Winter, Spring)
- HS 391 Research Methods and Program Evaluation (2.0:2:0)**
Prerequisite: FDMAT 221, or 222, or 223 (FDMAT 222 is recommended)
Introduction to the five section thesis, assessment instruments, data collection, research design, and statistical analysis. Students will develop strategies for evaluating the success of health education programs; implementing data collection and analysis through the use of the SPSS statistical package. Meets some requirements for preparation to take the CHES exam.
(Fall, Winter, Spring)
- HS 401 Health Promotion Methods (2.0:2:0)**
Prerequisite: HS 390
Designed to give the students practical experience and exposure in Health Promotion Skills that the Health promotion Educator will use.
(Fall, Winter, Spring)
- HS 405 Health Teaching Methods (4.0:3:3)**
Prerequisite: HS 131 or HS 331, BIO 264
This class is designed to prepare a student for the junior/senior high school teaching experience. The class covers all aspects of health education and teaching methodologies for the classroom.
(Fall, Winter, Spring)
- HS 420 Health Behavior Theories/Models (2.0:2:0)**
Provides a basic and theoretical understanding of the social, emotional/mental, physical, and lifestyle factors related to human behavior. Practical strategies are used to identify barriers to behavior and to enhance and improve health. Meets some requirements for preparation to take the CHES exam.
(Fall, Winter, Spring)

- HS 425 Managing Technology in Healthcare Provider Organizations (3.0:3:0)**
Prerequisite: HS 285
This course is designed to provide information and skills for managing technology in provider organizations. Emphasis is placed on department-by-department technologies, manufacturers, group purchasing organizations, analytical tools and methods, the fixed asset file, depreciation of capital assets, and capital budgeting.
(Fall, Winter, Spring)
- HS 430 School Health Programs (3.0:3:0)**
Prerequisite: Must be a declared Health Education major or minor in their junior or senior year.
This class is designed to inform the Health Education majors and minors about the comprehensive health education environment including both the school and the community health programs and procedures. The class also prepares students for recognizing and dealing with "at risk" students. Introduction to needs assessment, program development, finances evaluation, and implementation of school health programs will be covered.
(Fall, Winter)
- HS 450 Environmental Sanitation and Water Quality Management (3.0:3:0)**
Fee: \$20.00
Comprehensive study of the environmental health and safety practices, procedures and laws as applied to food establishments, recreation sites, housing facilities, medical institutions and industrial sites throughout the United States. Field trips will be required to local facilities. Additionally, there will be hands-on experience where students will learn how to sample and test water and other environmental agents.
(Fall, Spring)
- HS 455R Health/Fitness Clinical Experience (1-2.0:0:0)**
Prerequisite: Concurrent or past registration in HS 305.
Practical application of health and fitness assessment protocols. Skills are applied in a clinical setting. May be repeated for a maximum of 4 credits with no more than 2 credits/semester and only 3 credits applied toward graduation.
(Fall, Winter, Spring)
- HS 460 Drugs of Use and Abuse (3.0:3:0)**
The nature and effects of alcohol and other drugs on human beings, considered from physiological, psychological, and sociological viewpoints as well as effective treatments.
(Fall, Winter, Spring)
- HS 465 Healthcare Insurance Industry (3.0:3:0)**
Prerequisite: HS 285
This course is for Healthcare Administration majors. It focuses on third-party reimbursement and payment methodologies, beginning with CMS (Medicare and Medicaid), Traditional Indemnity Insurance and Managed Care. It also analyzes the business office functions that permit a healthcare organization to maximize reimbursement and to negotiate and administrate contracts with third-party providers.
(Fall, Winter, Spring)
- HS 472 Health Communication (3.0:3:0)**
This course is designed to give students an exposure to different areas of communications and how to most effectively disseminate health information and administer programs that an individual will most likely have to do working in the field of Health Promotion or Worksite wellness. There will be specific assignments that will be completed in the course of the semester. We will cover other areas as time permits.
(Fall, Winter, Spring)
- HS 480 International Health (3.0:3:0)**
Explores meaning of "health" as it applies to people of many different cultures throughout the world. Provides an international evaluation of the health status of these many different cultures, including their morbidity and mortality rates. Evaluates the many health promotion methods used to create healthy lifestyles and environmental concerns among these cultures.
(Fall, Winter, Spring)
- HS 484 Accident Investigation and Prevention (2.0:2:0)**
Theory and function of accident investigations, reporting, documentation, and analysis systems. Form design and utilization and cost-evaluation procedures.
(Fall)

- HS 485 Toxicology (3.0:3:0)**
 Prerequisite: Chemistry 101 or 105 preferred
 Presents a survey of the impact of toxic chemicals found in the environment and work-place. Discussion of the basic principles of toxicology, toxicokinetics, the environmental and biological impacts of toxic chemicals, and the regulatory guidelines for working with these chemicals.
 (Fall, Winter)
- HS 486 Occupational Safety and Risk Management (3.0:3:0)**
 This course is designed to develop an understanding of basic occupational safety and health terminology, principles and practices through education and practical activities.
 (Winter, Spring)
- HS 487 Introduction to Industrial Hygiene (3.0:3:0)**
 Fee: \$20.00
 An introduction to the basics of industrial hygiene, specifically the anticipation, recognition, evaluation, and control of workplace environmental factors that may affect the health, comfort, or productivity of the worker.
 (Fall, Spring)
- HS 488 Hazardous Materials Management (2.0:2:0)**
 This class will introduce you to basic standards for managing hazardous materials and the regulations and regulatory agencies which govern them. We will explore sound practices for managing the generation, control, and disposal of hazardous materials and waste.
 (Winter)
- HS 498 Internship (1.0-3.0:0:0)**
 Students seek a job-related experience with various settings (e.g.) hospital, doctor's office, medical clinic, state health department, industrial/corporation, nursing home, etc. This class is normally taken during your off track of your senior year.
 (Fall, Winter, Spring)

Medical Assisting Program

The Associate Degree of Applied Science in Medical Assisting prepares students to be employed in an ambulatory medical facility, i.e. a doctor's office, outpatient clinic, or same-day surgical center. A Medical Assistant is cross-trained and multi-skilled to perform both administrative (front office) and clinical (back office and lab) procedures to support the physician/employer in providing excellent patient care. This program prepares students to take the national Certified Medical Assistant exam offered by the American Association of Medical Assistants (AAMA).

To enter the program the student should first complete Bio 264 with a C or higher and HS 280 with a B- or higher. The student should then apply to the program by meeting with the Program Director. The entry courses are offered during all three semesters so students on every track can apply.

At the end of the program the student will complete a 200 hour, unpaid externship at an ambulatory facility. The purpose is to practice and perfect the skills learned in class. The externship may be done off-track and out-of-state upon approval of the school's Internship Office and the Program Director.

- MA 105 Clinical Skills in Medical Assisting I (3.0:3:0)**
 Fee: \$70.00
 Prerequisite: HS 280-Medical Terminology BIO 264/265-Anatomy and Physiology
 Provides instruction in the basic purposes, techniques, and documentation of procedures used to care for the ambulatory patient in a physician's office, clinic, or outpatient facility.
 (Fall, Winter, Spring)
- MA 105L Clinical Assistant in Medical Assisting I Lab (2.0:0:4)**
 Fee: \$30.00
 Prerequisite: HS 280-Medical Terminology BIO 264/265-Anatomy and Physiology Concurrent with MA 105
 Provides opportunity for a Medical Assisting student to practice and become proficient in the basic procedures learned in MA 105.
 (Fall, Winter, Spring)

- MA 106 Medical Law and Ethics (2.0:2:0)**
 Introduction to the legal aspects of medical care including fundamental statutes of the common laws that govern the physician-patient relationship, medical ethics and federal and state regulatory agencies. Current issues involving medical ethics are discussed.
 (Fall, Winter, Spring)
- MA 107 Administrative Skills in Medical Assisting (4.0:4:0)**
 Prerequisite: HS 280- Medical Terminology
 Provides instruction for Medical Assisting students in the fundamentals of medical front office management of an ambulatory facility.
 (Fall, Winter, Spring)
- MA 111 Medical Billing and Coding (3.0:3:0)**
 Prerequisite: HS 280-Medical Terminology
 Provides basic instruction to enable Medical Assisting students to master the skills needed to accurately complete and process simple billing records and insurance forms for an ambulatory medical facility.
 (Fall, Winter, Spring)
- MA 205 Clinical Skills in Medical Assisting II (3.0:3:0)**
 Prerequisite: HS 280-Medical Terminology BIO 264/265- Anatomy and Physiology MA 105/105L- Clinical Procedures I and Lab
 Provides instruction in Medical Assisting procedures utilized in medical specialty practices.
 (Fall, Winter, Spring)
- MA 205L Clinical Skills in Medical Assisting II Lab (1.0:0:2)**
 Fee: \$30.00
 Prerequisite: HS 280- Medical Terminology BIO 264/265- Anatomy and Physiology MA 105/105L- Medical Procedures I and Lab Concurrent with MA 205
 Provides opportunity for a Medical Assisting student to practice and become proficient in the procedures utilized in specialty medical practices as learned in MA 205.
 (Fall, Winter, Spring)
- MA 298 Medical Assisting Externship (2.0:0:0)**
 Prerequisite: All program required classes.
 Provides a minimum of 200 hours of directed work experience in an ambulatory facility. Students, under supervision and with an on-going evaluation of performance, exhibit skills and perform procedures relative to the responsibilities of a Medical Assistant. Students shall not receive pay for the externship hours as mandated by the criteria for AAMA/CAAHEP accreditation.
 (TBA- at completion of all required classes)

Paramedicine Program

The Paramedicine program offers two degree choices.

- Bachelor of Emergency Services Administration (475)
- Applied Associates Degree in Paramedicine (356)

Bachelor of Emergency Services Administration (475)

The Bachelor of Emergency Services Administration degree is tailored to cater to the progressive Physician's Assistant major requiring a bachelor's degree. The Biology and Chemistry courses required by most P.A. schools comprise the two clusters in lieu of a minor. The paramedic coursework teaches invaluable assessment skills; while the arduous clinical requirement for the paramedic certification normally apply toward clinical time mandates of the P.A. schools. The built-in Critical Care Paramedic endorsement is another progressive course and marketing tool available to the graduate in pursuit of the Physician's Assistant matriculation.

The Bachelor of Emergency Services Administration degree is also engineered to provide firefighter/ paramedics the enviable skill set to lead as chief administrators in either career civil service or private industry ambulance services. Be it fire service, emergency medical service or a combination department, the curriculum prepares the paramedic to engage in the operational aspects of administration with a proficiency in accounting, administrative law, and human resource relations and management.

Applied Associates Degree in Paramedicine (356)

The Paramedicine degree's intent is to prepare graduates for National Registry of Emergency Medical Technicians Paramedic certification and licensure in most States. Course work follows the U.S. Department of Transportation model.

Para 181, Bio 264, Bio 265, FDMAT 108 or higher, and Chem 101 are the prerequisites to admission to the Paramedic program. Concurrent enrollment in the prerequisites at the time of application is allowed. Application deadline is July 1st. Students admitted will attend three consecutive semesters: Fall, Winter and Spring, and will then do their internship.

Applications can be downloaded from <http://www.bui.edu/paramedicine>

PARA 171 Fire Fighting I (5.0:4:3)

Fee: \$150.00

Students will be provided with the information needed to become certified as a Firefighter Level I. Classes and hands-on experience in the areas of scene safety, fire behavior, building construction, fire ground search & rescue, fire extinguishment, and fire prevention. (Fall, Spring)

PARA 181 EMT Basic (7.0:6:4)

Fee: \$280.00

Emergency Medical Technician training designed to qualify students to become ambulance attendants at the Basic Level upon passing the National Registry of Emergency Technicians-Basic written and practical exams. Class includes "hands on" training with practical evaluations of knowledge and skills. (Fall, Winter, Spring)

PARA 199 Firefighter II/Hazmat Operations (3.0:3:0)

Prerequisite: Para 171

Overview of the responsibilities of the Fire Fighter II. Emphasis is placed on understanding and utilizing fire department leadership to accomplish fire suppression. (Fall, Spring)

PARA 241 Professional Seminar I (1.0:0:2)

Designed to offer credit in a specialty area where teaching, administrative or organizational experiences are provided for individual students in the area of Paramedicine. Includes local ambulance experience, doctors' seminars and participation in Basic EMT Lab. (Fall, Spring)

PARA 242 Professional Seminar II (1.0:0:2)

Prerequisite: Para 241

Designed to offer credit in a specialty area where teaching, administrative or organizational experiences are provided for individual students in the area of Paramedicine. Includes local ambulance experience, doctors' seminars and participation in Basic EMT Lab. (Winter, Spring)

PARA 250 Assessment Based Management I (1.0:1:4)

Ambulance scenarios with assessment based management for trauma and medical patients. Situations move from field to ambulance to Emergency Department. Emphasis is on working with a partner and aggressive treatment and transport. (Fall)

PARA 251 Assessment Based Management II (1.0:1:4)

Prerequisite: Concurrent registration in PARA 378.

Ambulance scenarios with assessment based management for trauma and medical patients - adults, pediatric, & geriatric. Situations move from field to ambulance to Emergency Department. Emphasis is on team leader experience, scene control, use of personnel, aggressive treatment and transport. (Spring)

PARA 256 Patient Assessment I (1.0:1:0)

Prerequisite: Para 181

Students will be introduced to patient assessment principles including history taking, physical exam techniques, patient assessment in the field, clinical decision making, medical communications, and documentation with emphasis being placed on the trauma and medical patient. (Fall)

PARA 257 Patient Assessment II (1.0:1:0)

Prerequisite: Para 256

Students will continue to learn advanced patient assessment principles including history taking, physical exam techniques, patient assessment in the field, clinical decision making, medical communications, and documentation with emphasis being placed on the trauma and medical patient. (Winter)

PARA 262 Pharmacology (1.0:1:0)

Prerequisite: Para 360

At the completion of this unit, the paramedic student will be able to integrate pathophysiological principles of pharmacologic management plan. The paramedic student will be able to safely and precisely access the venous circulation and use mathematical principles to administer medications. (Spring)

PARA 264 Airway I (1.0:1:0)

Prerequisite: Concurrent registration in Para 360. Permission only.

Airway anatomy, physiology and management to include endotracheal intubation, combitube, LMA, PTL, EOA, EGTA tracheal suctioning, extubation, respiratory diseases and disorders with pharmacological management. (Fall)

PARA 274 Trauma I (1.0:1:0)

Presentation, discussion and testing of all aspects of traumatic injuries involving pediatric, adult, and geriatric patients. (Winter)

PARA 280 Cardiology I (3.0:3:0)

Cardiovascular Anatomy, Pathophysiology, assessment and management of patients with cardiac related problems, ECG monitoring 1-3 lead, Advanced Cardiac Life Support, provider preparation. (Fall)

PARA 285 EMS Operations I (1.0:0:4)

Prerequisite: Paramedic Majors Only

Mass Casualty Incident Command, HAZMAT Awareness, Search and Rescue Awareness. (Spring)

PARA 291 Paramedic Hospital Clinical I (1.0:0:7)

Prerequisite: Concurrent registration in PARA 360

Hospital experience: Emergency Department, Operating Room, Intubations IV Therapy, Labor and Delivery, Pediatrics, ICU/CUJ, Cardiac Catheterization Lab, ECG, Post Anesthesia Recovery, Respiratory Therapy, Medical Floor, Geriatrics, Central Supply/Pharmacy, Rehabilitation and Behavioral Health. Must be taken for a minimum of 420 hospital hours. (May be taken more than one semester) (Fall, Winter)

PARA 292 Paramedic Hospital Clinical II (1.0:0:7)

Prerequisite: Concurrent registration in PARA 378

Hospital experience: Emergency Department, Operating Room, Intubations IV Therapy, Labor and Delivery, Pediatrics, ICU/CUJ, Cardiac Catheterization Lab, ECG, Post Anesthesia Recovery, Respiratory Therapy, Medical Floor, Geriatrics, Central Supply/Pharmacy, Rehabilitation and Behavioral Health. Must be taken for a minimum of 420 hospital hours. (May be taken more than one semester) (Winter, Spring)

PARA 360 Preparatory (6.0:4:8)

Prerequisite: BIO 264, BIO 265, Chem 101, Para 181, FDMAT 108 or higher

Preparatory fundamentals to include: EMS Systems, Roles & Responsibilities, Well Being, Injury & Illness Prevention, Medical & Legal Issues, Ethics, Pathophysiology, Pharmacology, Venous Access, Medication Administration, Therapeutic Communications, Documentation, Life Span Development, Patient Assessment. Paramedic training in field and hospital pharmacology, medication administration, Intravenous and Fluid Therapy, Endotracheal, Digital, Transilluminated Intubation, Needle and Surgical Cricothyrotomy, Patient Assessment and Management - Trauma and Cardiac, Advanced Cardiac Life Support Practice. (Fall)

- PARA 370 Special Considerations (3.0:3:0)**
Prerequisite: PARA 360
Assessment and management of neonate, pediatric, geriatric, special patients, challenged patients, and abused and assaulted patients. Includes: Pediatric Advanced Life Support Provider Certification Preparation and Critical Care and Acute Interventions in the home care patient.
(Winter)
- PARA 378 Medical Emergency (6.0:4:8)**
Prerequisite: Majors Only
Pathophysiology, assessment and management of patients with medical disorders and emergencies. Areas include: Neurology, Endocrinology, Allergies and Anaphylaxis, Gastroenterology, Renal/Urology, Toxicology, Hematology, Environmental Conditions, Infectious and Communicable Diseases, Behavioral/Psychiatric Disorders, Gynecology and Obstetrics, Lab practice in MEGA-CODES and patient care in trauma, Cardiac and Medical Emergencies, Pediatric, and Geriatric.
(Winter)
- PARA 387 Cardiology II (1.0:1:0)**
Prerequisite: Majors Only
Pathophysiology assessment including 12 lead ECG evaluation and management of cardiac and respiratory emergencies. Includes etiology, signs and symptoms of compromise, clinical implications, treatment protocols, pharmacological & electrical interventions and termination of resuscitation, MEGA-CODE practice and patient assessment and management.
(Winter)
- PARA 488 Pathophysiology in Differential Diagnosis (3.0:3:4)**
Prerequisite: Majors Only
Critical Evaluation and Clinical Decision Making, Assessment and Management of Traumatic and medical Emergencies, Differential Diagnosis.
(Spring)
- PARA 494 Critical Care Prep I (2.0:2:3)**
Prerequisite: PARA 378; Admission to Paramedic Program
The first component of a four course series designed to teach the Idaho and National Critical Care Curriculum.
(Spring)
- PARA 495 Critical Care Prep II (2.0:2:3)**
Prerequisite: Para 378; Admission to Paramedic Program
Introduction and in-depth overviews of the skill sets required in Critical Care transports and monitoring.
(Spring)
- PARA 496 Critical Care Prep III (1.0:1:2)**
Prerequisite: Para 378; Admission to Paramedic Program
Continued learning in the areas of daily operations and inter-agency relations.
(Spring)
- PARA 497 Critical Care Hospital Clinical (1.0:1:0)**
Prerequisite: PARA 291, PARA 292
Skills discussed in Critical Care Modules 1-3 will be practiced in the hospital setting: OR, ER, ICU, and Cardiac Care Unit.
(Spring)
- PARA 498 Paramedic Ambulance Internship (1.0-6.0:0:0)**
Fee: \$298.00
Prerequisite: Paramedic majors only.
Preceptor internship with 911 ambulance services. Must be approved by the Paramedic Program Committee (480 hours minimum with 100 ALS calls).
(Fall, Winter, Spring)