

# APPLIED HEALTH SCIENCE, B.S.

## Program Learning Outcomes

*All Applied Health Science majors will be able to:*

1. Speak and write effectively to a target audience on essential information in health care.
2. Critically evaluate and integrate new information into professional practice to solve relevant health care concerns.
3. Describe the mechanisms (i.e. metabolic, physiologic, biomechanical, and developmental) by which physical activity aids in health care settings.
4. Demonstrate preparedness to serve others in various health care settings through their selected vocation or calling.

Code	Title	Units
<b>Lower-Division Requirements</b>		
BIO 1030 and BIO 1030L	Human Anatomy and Physiology I (FE) and Human Anatomy and Physiology I Laboratory (FE)	4
BIO 1040 and BIO 1040L	Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory	4
BIO 2010 and BIO 2010L	Cell Biology and Biochemistry (FE) and Cell Biology and Biochemistry Laboratory (FE)	4
BIO 2020 and BIO 2020L	Microbiology of Infectious Diseases and Microbiology of Infectious Diseases Laboratory	4
CHE 1052 and CHE 1052L	General Chemistry I (FE) and General Chemistry I Lab (FE)	5
CHE 1053 and CHE 1053L	General Chemistry II and General Chemistry II Lab	4
KIN 1001	Orientation to Kinesiology	1
KIN 2080	Care and Prevention of Athletic Injuries	2
KIN 2000 or KIN 2030	Optimal Health (FE) Lifestyle as Medicine (FE)	2
MTH 2003	Introduction to Statistics	3
PSY 1003	General Psychology (FE)	3
<b>Upper-Division Requirements</b>		
KIN 3012	Motor Learning and Motor Development	3
KIN 3025	Structural Kinesiology	2
KIN 3027	Applied Biomechanics	2
KIN 3040	Physiology of Exercise	3
KIN 3085	Pathology of Injury and Illness	3
KIN 4095	Kinesiology Capstone	1
PSY 3021	Abnormal Psychology	3
<b>Elective Courses</b>		
Complete a minimum of twelve (12) units with at least seven (7) units being upper division from the following:		12
ATR 5000	Seminar in Athletic Training	
ATR 5005	Research Methods and Statistical Techniques for Clinical Decision Making in Sports Medicine	

ATR 5087 and ATR 5087L	Evidence-Based Orthopedic Assessment of the Lower Extremity and Evidence-Based Orthopedic Assessment of the Lower Extremity Laboratory
ATR 5088 and ATR 5088L	Evidence-Based Orthopedic Assessment of the Spine and Upper Extremities and Evidence-Based Orthopedic Assessment of the Spine and Upper Extremities Laboratory
ATR 5090	Clinical Internship I
ATR 5091	Clinical Internship II
BIO 2011 and BIO 2011L	Ecological and Evolutionary Systems (FE) and Ecological and Evolutionary Systems Laboratory (FE)
BIO 3015 and BIO 3015L	Microbiology and Microbiology Laboratory
BIO 3045 and BIO 3045L	Genetics and Genetics Laboratory
BIO 4050 and BIO 4050L	Advanced Biochemistry and Advanced Biochemistry Laboratory <sup>1</sup>
BIO 4070	Neuroscience
CHE 2094 and CHE 2094L	Organic Chemistry I and Organic Chemistry I Lab
CHE 2096 and CHE 2096L	Organic Chemistry II and Organic Chemistry II Lab
CHD 1050	Human Development
KIN 2050	Medical Terminology
KIN 3001 and KIN 3001L	Fitness Assessment and Exercise Prescription and Fitness Assessment and Exercise Prescription Lab
KIN 3027L	Biomechanics Laboratory
KIN 3030	Nutrition for Exercise and Sport Performance
KIN 3040L	Physiology of Exercise Lab
KIN 3070	Praxis of Strength Training and Conditioning
KIN 3075	Movement Interventions and Corrective Exercise
KIN 3087	Assessment of Lower Extremity Pathology
KIN 3088	Assessment of Head, Spinal, and Upper Extremity Pathology
KIN 4010	Therapeutic Exercise
KIN 4020	Pharmacology
KIN 4030	Clinical Exercise Physiology
KIN 4075	Gross Anatomy: Neuromusculoskeletal Dissection of the Spine and Extremities
KIN 4088	Internship in Kinesiology (3 Units Required)
KIN 5010	Evidence-Based Practice and Decision Making in Kinesiology
PHY 1044 and PHY 1044L	General Physics I (FE) and General Physics I Lab (FE)
PHY 1054 and PHY 1054L	General Physics II (FE) and General Physics II Lab (FE)
PSY 3008	Developmental Psychology - Birth Through Adolescence

SOC 4070 Medical Sociology

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<b>Total Units</b>	<b>65</b>
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<sup>1</sup> Or CHE 4050 & CHE 4050L

**Note(s):** 11 units meet Foundational Explorations requirements.