EXERCISE SCIENCE, B.S.

Major Code: 1226

The Exercise Science degree (previously named Human Performance and Health Promotion) will prepare students for fitness positions in wellness facilities, as well as in general fitness facilities and gyms. Towards this end, the curriculum will include a strong foundation in math and science, along with basic fitness-related classes in general fitness and wellness, sport psychology, motor learning, strength and conditioning, exercise physiology, exercise appraisal and programming, biomechanics and fitness program administration. Specialized classes will include introduction to exercise field work, emergency response procedures, cardiopulmonary assessment, exercise physiology for special populations, and kinesiology.

The baccalaureate program culminates in two internships designed to provide the student with significant hands-on training and experience in the field of Exercise Science. The first internship involves direct participation in the daily operations of the college-run wellness center. The students will be responsible for all aspects of the operation including administration, management, and exercise programming. The Capstone Internship involves a practical off-campus learning experience immersing students in the day-to-day operations of approved agencies. Sites for internships will include corporate fitness centers, wellness clinics, and community-based health clubs.

The Exercise Science degree will prepare students for preventative and rehabilitative fitness positions in cardiac rehabilitation and wellness facilities, cardiology offices, hospitals and nursing homes, as well as in general fitness facilities and gyms.

Upon successful completion of this program, students will be able to:

- Lead, supervise, and effectively guide and motivate individuals in an exercise program.
- Administer fitness assessments, develop and implement prescriptions based on those assessments
- Conduct experiments and collect data related to exercise science, and then interpret how this data relates to physiological adaptations.
- Describe how disease negatively affects health and quality of life and how exercise can mitigate effects
- Apply principles discussed within the Exercise Science curriculum in a practical, professional environment
- Describe the influence of psychological principles in sport, exercise, and other performance related contexts
- Present and organize information in a manner that is consistent with the principles of scientific writing

Curriculum Requirements

A minimum of 120 credits is required for degree completion.

Code	Title	Credits
HPHP 100	Intro to Wellness & Fitness	4
HPHP 101	Fieldwork in HPHP (45 hours)	1
HPHP 200	Exercise Physiology I	4
HPHP 201	Exercise Physiology II	4
HPHP 300	Sport & Exercise Psychology	3
HPHP 301	Kinesiology & Applied Anatomy	4
HPHP 304	Community Service in Sport Sci	1

LAS Credits) Electives as Advised	7
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SUNY General Education Electives as Advised (General Education or	5
SUNY General Education Diversity, Equity, Inclusion and Social Justice as Advised	3
SUNY General Education as Advised: Arts, US History & Civic Engagement, World History & Global Awareness, or World Languages	3
PSYC 386 Social Psychology SUNV Concrete Education on Advisord Arts US History & Civils	3
PSYC 384 Group Behavior	3
PSYC 101 Introduction to Psychology	3
PHIL 311 Professional Ethics	3
PHIL 201 Introduction To Philosophy	3
SOCI 250 Social Gerontology	3
MATH 151 General Calculus A	3
MATH 141 Statistics	3
COMM 111 Introduction to Speech	3
COMP 310 Advance Tech Communication	3
COMP 101 Composition and Research	3
BIOL 151 Human Anatomy + Physiology II	4
BIOL 150 Human Anatomy + Physiology I	4
BIOL 120 General Biology I	4
PHYS 107 Introductory Physics I	4
MAST 100 CPR for Healthcare Providers	1
NUTR 250 Sports Nutrition	3
NUTR 110 Nutrition I	3
HPHP 405 HPHP Internship	6
HPHP 404 Fitness Leadership and Admin	3
HPHP 403 Ex Phys Special Populations	3
HPHP 402 Wellness Center Internship	3
HPHP 401 Cardiopulmonary Assess for Ex	3
HPHP 400 App Strength Cond Principles	3
HPHP 305 Fitness Assess and Ex Rx	4

Suggested Course Sequence

Course	Title	Credits
Year 1		
Fall		
HPHP 100	Intro to Wellness & Fitness	4
BIOL 120	General Biology I	4
NUTR 110	Nutrition I	3
COMP 101	Composition and Research	3
GNED 100	First Year Experience	2
MATH 151	General Calculus A	3
	Credits	19
Spring		
HPHP 101	Fieldwork in HPHP	1
COMM 111	Introduction to Speech	3
PHYS 107	Introductory Physics I	4
General Education	as Advised	3
Elective as Advised		3
	Credits	14
Year 2		
Fall		
BIOL 150	Human Anatomy + Physiology I	4
PSYC 101	Introduction to Psychology	3

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PHIL 201 Introduction To Philosophy 3 MAST 100 CPR for Healthcare Providers 1 Credits 18 Year 3 Fall HPHP 301 Kinesiology & Applied Anatomy 4 HPHP 300 Sport & Exercise Psychology 3 PHIL 311 Professional Ethics 3 PSYC 384 Group Behavior 3 Credits 13 Spring HPHP 305 Fitness Assess and Ex Rx 4 HPHP 304 Community Service in Sport Sci 1 COMP 310 Advance Tech Communication 3 NUTR 250 Sports Nutrition 3 General Education as Advised 3 Credits 14 Year 4 Fall HPHP 400 App Strength Cond Principles 3 HPHP 402 Wellness Center Internship 3 HPHP 403		Total Credits	121	
SUNY General Education Diversity, Equity, Inclusion and Social Justice as Advised 3 Elective as Advised 2 Credits 16 Spring MATH 141 Statistics 3 BIOL 151 Human Anatomy + Physiology II 4 HPHP 201 Exercise Physiology II 4 SOCI 250 Social Gerontology 3 PHIL 201 Introduction To Philosophy 3 MAST 100 CPR for Healthcare Providers 1 Credits 18 Year 3 Fall HPHP 301 Kinesiology & Applied Anatomy 4 HPHP 300 Sport & Exercise Psychology 3 PSYC 384 Group Behavior 3 Credits 13 Spring HPHP 305 Fitness Assess and Ex Rx 4 HPHP 304 Community Service in Sport Sci 1 COMP 310 Advance Tech Communication 3 NUTR 250 Sports Nutrition		Credits	15	
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