# B.S. Exercise Science (Fall 2019 & Later)

### Minimum 120 credits required for Bachelor's degree

Foundational Core (30-32 credits)		Grade
FYS 125 <sup>1</sup>	First Year Seminar	
CTL 125	Critical Thinking	
MA 140	Precalculus	
Choose 1 course from each	area *	
<sup>2</sup> Natural/Physical Science		
Literature		
History	HI-100 or HI-102	
Arts/Design/Comm.		
Philosophy		
Theology/Relig		
Social/Behavioral Science		

Human Journe	Seminars:	Great	Books	in CIT	(6 Credits)
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CIT 201	CIT Seminar I	
CIT 202	CIT Seminar II	

#### Liberal Arts Explorations (LAE) (9 Credits)

Student must complete one course in each area. (see list on Registrar's Website - checksheets)				
Humanistic Inquiry (3 credits)				
Social and Global Awareness (3 credits)				
Scientific Literacy (3 credits)				

\* See list of courses.

<sup>1</sup>(Requires Grade C or higher)

<sup>2</sup>Science/Natural Science courses includes

approved Math and Computer Science courses. Students

are required to take at least one course in Biology, Chemistry, or

Physics in the Foundational or Liberal Arts Exploration Core. CS and MA courses may be used as a Science/Natural Science in either the Foundational Core <u>or</u> as a requirement in the LAE Core

but not in both categories.

Note: MA 006 and ESL courses **will not** count towards the 120 credit graduation requirement.

Approved Study Abroad courses may be used to satisfy requirements for the foundational core or a Liberal Arts Exploration

A maximum of 8 Applied Music credits may be applied towards graduation

Checksheet Key	
Т	Course transferred and Requirement satisfied
W	Requirement waived
TW	Course transferred and Requirement waived

Required Curriculum for EX Majors <sup>1</sup> (31 Credits)		
EX 100	Introduction to Exercise Science	
EX 101	Introduction to Personal Fitness & Conditioning	
EX 201	Leadership In Healthcare	
EX 240	Sports Medicine in Exercise Science w/ Lab	
EX 250	Exercise Physiology w/ Lab	
EX 255	Nutritional Aspects of Human Health & Perf.	
EX 260	Kinesiology w/ Lab	
EX 290	Behavioral Aspects of Exercise Science	
EX 362	Exercise Testing and Prescription w/ Lab	
EX 363	Dev. Strength & Conditioning Programs w/ Lab	

Exercise Science Capstone <sup>1</sup> (3 credits)		Grade
EX 366	Clinical Rotations	
EX 367	Internships in Exercise Science	
EX 397	Practical Applications of Exercise Science	
EX 398	Independent Research in Exercise Science	

Exercise Science Electives' (6 Credits @ 200-level, 3 credits @			
300-level)		Grade	
EX 253	Pathophysiology & Pharmacology		
EX 270	Neural Control of Human Movement		
EX 280	Coaching Methods		
EX 299	Special Topics in Exercise Science		
EX 320	Pediatric Exercise Science		
EX 358	Exercise and Aging		
EX 361	Functional Gait Analysis		
EX 365	Clinical Exercise Science		

Required Su	Required Supporting Courses <sup>1</sup> (24 additional credits) Grade			
MA 140	Precalculus			
MA 131	Elementary Statistics			
CH 117/119	Gen. Organic Chemistry & Biochemistry with Lab or			
or CH 151/153	General Chemistry I with Lab			
PY 104	Elements of Physics or			
or PY 111/113	General Physics I w/ Lab			
BI 111/113	Concepts in Biology I w/ Lab			
BI 112/114	Concepts in Biology II w/ Lab			
BI 206/208	Human Anatomy & Physiology I w/ Lab			
BI 207/209	Human Anatomy & Physiology II w/ Lab			
PS 110	General Psychology			
PS 295	Health Psychology			

General Elec	General Electives (12 credits)	
Free Elective		

Total Credits 122

# SACRED HEART UNIVERSITY College of Health Professions

# Exercise Science Major (Fall 2019 & Later)

# SUGGESTED FOUR YEAR SEQUENCE

YEAR 1	SEMESTER I (14 credits)	YEAR 1	SEMESTER 2 (16 credits)
FYS 125 <b>or</b>	First Year Seminar	FYS 125 <b>or</b>	First Year Seminar or
CTL 125	Critical Thinking	CTL 125	Critical Thinking
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab
EX 100 <b>or</b>	Introduction to Exercise Science	EX 100 <b>or</b>	Introduction to Exercise Science
PS 110	General Psychology	PS 110	General Psychology
MA 140	Precalculus	XXX	Foundational Core 1
		XXX	Foundational Core 2 or LAE
YEAR 2	SEMESTER 3 (16 credits)	YEAR 2	SEMESTER 4 (15 credits)
CIT 201	CIT Seminar I	CIT 202	CIT Seminar II
BI 206/208	Human Anatomy & Physiology I with Lab	BI 207/209	Human Anatomy & Physiology II with Lab
PS 295	Health Psychology	MA 131 <b>or</b>	Elementary Statistics
XXX	Foundational Core 2 or LAE	XXX	Foundational Core 3
MA 131 <b>or</b>	Elementary Statistics	EX 240	Sports Medicine in Exercise Science with Lab
XXX	Foundational Core 3	EX 101 or	Introduction to Personal Fitness & Conditioning
		EX 201	Leadership in Healthcare
YEAR 3	SEMESTER 5 (15 credits)	YEAR 3	SEMESTER 6 (17 credits)
PY 100	Elements of Physics with Lab	EX 260	Kinesiology with Lab
EX 250	Exercise Physiology with Lab	CH 117/119	Organic Chemistry & Biochemistry with Lab
EX 290 <b>or</b>	Behavioral Aspects of Exercise Science	EX 290 or	Behavioral Aspects of Exercise Science
EX 255	Nutritional Aspects of Human Health & Perf.	EX 255	Nutritional Aspects of Human Health & Perf.
XXX	EX 200-level Elective 1 or Foundational Core 4	XXX	EX 200-level Elective 1 or Foundational Core 4
EX 101 or	Introduction to Personal Fitness & Conditioning	EX XXX	EX 200-level Elective 2
EX 201	Leadership in Healthcare		
YEAR 4	SEMESTER 7 (14 credits)	YEAR 4	SEMESTER 8 (15 credits)
EX 362	Exercise Testing & Rx with Lab	XXX	EX 300-level Elective or Free Elective
EX 363	Dev. Strength & Condition. Programs with Lab	XXX	Foundational Core 5 or Free Elective
XXX	EX 300-level Elective or Free Elective	EX 366 or	Clincal Rotations
	Foundational Core 5 or Free Elective	EX 367 or	Internship
XXX			
XXX		EX 397 or	Practical Applications of Exercise Science
XXX		EX 397 or EX 398	Practical Applications of Exercise Science Independent Research
XXX			

Updated 8/1/19

### SACRED HEART UNIVERSITY

College of Health Professions

### Exercise Science Major (Fall 2019 & Later)

### Undergraduate Major in Exercise Science with Pre-Physical Therapy (DPT) requirements

#### SUGGESTED THREE YEAR SEQUENCE OF STUDY Total Credits: 123

YEAR 1	SEMESTER I (16 credits)	YEAR 1	SEMESTER 2 (17 credits)	YEAR 1	WINTER - SHU ONLINE (3 credits)
FYS 125 or	First Year Seminar	FYS 125 or	First Year Seminar or		LAE or Foundational Core 4
CTL 125	Critical Thinking	CTL 125	Critical Thinking		
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab	YEAR 1	SUMMER (8 credits)
EX 100 or	Introduction to Exercise Science	EX 100 or	Introduction to Exercise Science	BI 206/208	Human Anatomy & Physiology I with Lab
PS 110	General Psychology	PS 110	General Psychology	BI 207/209	Human Anatomy & Physiology II with Lab
	Foundational Core 1	MA 140	Precalculus		
	Foundational Core 2		Foundational Core 3		
				-	
YEAR 2	SEMESTER I (18 credits)	YEAR 2	SEMESTER 2 (18 credits)	YEAR 2 or 3	WINTER - SHU ONLINE (3 credits)
CIT 201	CIT Seminar 1	CIT 202	CIT Seminar 2	EX 255	Nutritional Aspects of Human Health & Perf.
MA 131	Elementary Statistics	EX 260	Kinesiology w/ Lab		
EX 240	Sports Medicine in Exercise Science w/ Lab	PY 112/114	General Physics II w/ Lab	YEAR 2	SUMMER (8 credits)
EX 250	Exercise Physiology w/ Lab	EX 290	Behavioral Aspects of Exercise Science	CH 151/153	General Chemistry I w/ Lab
PY 111/113	General Physics I w/ Lab	PS 295	Health Psychology	CH 152/154	General Chemistry II w/ Lab
		EX 101 or	Conditioning		
		EX 201	Leadership in Healthcare		
				-	
YEAR 3	SEMESTER I (18 credits)	YEAR 3	SEMESTER 2 (16 credits)		
EX 363	Dev. Strength & Condition. Programs w/ Lab	EX 362	Exercise Testing & Prescription with Lab		
	EX Elective (200 level)	EX 366 or	Clincal Rotations		
	EX Elective (200 level)	EX 367 or	Internship Practical Applications of Exercise		
or	LAE	EX 397 or	Science		
	Foundational Core 4 Introduction to Personal Fitness &	EX 398	Independent Research		
EX 101 or	Conditioning		EX Elective (300 level)		
EX 201	Leadership in Healthcare		Foundational Core 5		
	Free Elective		Free Elective		

Updated 8/1/19

### SACRED HEART UNIVERSITY

College of Health Professions

### Exercise Science Major (Fall 2019 & Later)

### Undergraduate Major in Exercise Science with MS in Exercise Science & Nutrition requirements

#### SUGGESTED THREE YEAR SEQUENCE OF STUDY Total Credits: 122

YEAR 1	SEMESTER I (16 credits)	YEAR 1	SEMESTER 2 (17 credits)	YEAR 1	WINTER - SHU ONLINE (3 credits)
FYS 125 or	First Year Seminar	FYS 125 or	First Year Seminar or		LAE or Foundational Core 4
CTL 125	Critical Thinking	CTL 125	Critical Thinking		
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab	YEAR 1	SUMMER (8 credits)
EX 100 or	Introduction to Exercise Science	EX 100 or	Introduction to Exercise Science	BI 206/208	Human Anatomy & Physiology I with Lab
PS 110	General Psychology	PS 110	General Psychology	BI 207/209	Human Anatomy & Physiology II with Lab
	Foundational Core 1	MA 140	Precalculus		
	Foundational Core 2		Foundational Core 3		
				1	
YEAR 2	SEMESTER I (18 credits)	YEAR 2	SEMESTER 2 (18 credits)	YEAR 2	WINTER - SHU ONLINE (3 credits)
CIT 201	CIT Seminar 1	CIT 202	CIT Seminar 2		LAE or Foundational Core 4
MA 131	Elementary Statistics	EX 260	Kinesiology w/ Lab		
EX 240	Sports Medicine in Exercise Science w/ Lab	EX 250	Exercise Physiology w/ Lab	YEAR 2	SUMMER (6 credits)
	Free Elective	EX 290	Behavioral Aspects of Ex. Science		EX elective (200 level) or Free Elective
EX 101 or	Introduction to Personal Fitness & Conditioning	PS 295	Health Psychology		EX Elective (200 level) or Free Elective
	Conditioning		Introduction to Personal Fitness &		× ,
EX 201	Leadership in Healthcare	EX 101 or	Conditioning		
PY 104	Elements of Physics I w/ Lab	EX 201	Leadership in Healthcare		
				-	
YEAR 3	SEMESTER I (17 credits)	YEAR 3	SEMESTER 2 (16 credits)	T	
EX 362	Exercise Testing & Rx w/ Lab	EX 363	Dev. Strength & Condition. Programs w/ Lab		
	EX Elective (200 level) or Free Elective EX Elective (200 level) or Free	EX 366 or	Clincal Rotations		
	Elective	EX 367 or	Internship Practical Applications of Exercise		
CH 117/119	Gen. Org/Bio Chem w/ Lab	EX 397 or	Science		
	Foundational Core 5	EX 398	Independent Research		
			EX Elective (300 level)		
		EX 255	Nutr. Aspects of Health/Performance		
		1	Free Elective	1	

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# SACRED HEART UNIVERSITY

**College of Health Professions** 

# Exercise Science Major (Fall 2019 & Later)

### Undergraduate Major in Exercise Science with Master of Public Health (MPH) requirements

# SUGGESTED THREE YEAR SEQUENCE OF STUDY

Total Credits: 122

YEAR 1	SEMESTER I (16 credits)	YEAR 1	SEMESTER 2 (17 credits)	YEAR 1	WINTER - SHU ONLINE (3 credits)
FYS 125 or	First Year Seminar	FYS 125 or	First Year Seminar or		LAE or Foundational Core 4
CTL 125	Critical Thinking	CTL 125	Critical Thinking		
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab	YEAR 1	SUMMER (8 credits)
EX 100 or	Introduction to Exercise Science	EX 100 or	Introduction to Exercise Science	BI 206/208	Human Anatomy & Physiology I with Lab
PS 110	General Psychology	PS 110	General Psychology	BI 207/209	Human Anatomy & Physiology II with Lab
	Foundational Core 1	MA 140	Precalculus		
	Foundational Core 2		Foundational Core 3		
				4	
YEAR 2	SEMESTER I (18 credits)	YEAR 2	SEMESTER 2 (18 credits)	YEAR 2	WINTER - SHU ONLINE (3 credits)
CIT 201	CIT Seminar 1	CIT 202	CIT Seminar 2		LAE or Foundational Core 4
MA 131	Elementary Statistics	EX 260	Kinesiology w/ Lab		
EX 240	Sports Medicine in Exercise Science w/ Lab	EX 250	Exercise Physiology w/ Lab	YEAR 2	SUMMER (6 credits)
	Free Elective	EX 290	Behavioral Aspects of Ex. Science		EX elective (200 level) or Free Elective
PY 104	Elements of Physics I w/ Lab Introduction to Personal Fitness &	PS 295	Health Psychology Introduction to Personal Fitness &		EX elective (200 level) or Free Elective
EX 101 or	Conditioning	EX 101 or	Conditioning		
EX 201	Leadership in Healthcare	EX 201	Leadership in Healthcare		
				-	
YEAR 3	SEMESTER I (17 credits)	YEAR 3	SEMESTER 2 (16 credits)		
EX 363	Dev. Strength & Condition. Programs w/ Lab	EX 362	Exercise Testing & Rx w/ Lab		
	EX elective (200 level) or Free Elective EX elective (200 level) or Free	EX 366 or	Clincal Rotations		
	Elective	EX 367 or	Internship Practical Applications of Exercise		
CH 117/119	Gen. Org/Bio Chem w/ Lab	EX 397 or	Science		
	Foundational Core 5	EX 398	Independent Research		
		]	EX Elective (300 elective)		
		EX 255	Nutr. Aspects of Health/Performance		

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## SACRED HEART UNIVERSITY College of Health Professions

# **Exercise Science Major (Fall 2019 & Later)**

### Undergraduate Major in Exercise Science with Master of Occupational Therapy (MSOT) requirements

# SUGGESTED THREE YEAR SEQUENCE OF STUDY Total Credits: 122

YEAR 1	SEMESTER I (16 credits)	YEAR 1	SEMESTER 2 (17 credits)	YEAR 1	WINTER - SHU ONLINE (3 credits)
FYS 125 or	First Year Seminar	FYS 125 or	First Year Seminar or		LAE or Foundational Core 4
CTL 125	Critical Thinking	CTL 125	Critical Thinking		
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab	YEAR 1	SUMMER (8 credits)
EX 100 or	Introduction to Exercise Science	EX 100 or	Introduction to Exercise Science	BI 206/208	Human Anatomy & Physiology I with Lab
PS 110	General Psychology	PS 110	General Psychology	BI 207/209	Human Anatomy & Physiology II with Lab
	Foundational Core 1	MA 140	Precalculus		
	Foundational Core 2	SO 110	Sociological Imagination		
YEAR 2	SEMESTER I (18 credits)	YEAR 2	SEMESTER 2 (18 credits)	YEAR 2	WINTER - SHU ONLINE (3 credits)
CIT 201	CIT Seminar 1	CIT 202	CIT Seminar 2		LAE or Foundational Core 4
MA 131	Elementary Statistics	EX 260	Kinesiology w/ Lab		
EX 240	Sports Medicine in Exercise Science w/ Lab	EX 250	Exercise Physiology w/ Lab	YEAR 2	SUMMER (6 credits)
PS 212	Psychopathology	EX 290	Behavioral Aspects of Ex. Science		EX elective (200 level) or Free Elective
EX 101 or	Introduction to Personal Fitness & Conditioning	PS 295	Health Psychology		Free Elective

Introduction to Personal Fitness &

Leadership in Healthcare

Conditioning

YEAR 3	SEMESTER I (17 credits)	YEAR 3	SEMESTER 2 (16 credits)
EX 363	Dev. Strength & Condition. Programs w/ Lab EX elective (200 level) or Free	EX 362	Exercise Testing & Rx w/ Lab
	Elective	EX 366 or	Clincal Rotations
EX 320	Pediatric Exercise Science	EX 367 or	Internship Practical Applications of Exercise
CH 117/119	Gen. Org/Bio Chem w/ Lab	EX 397 or	Science
	Free Elective	EX 398	Independent Research
		EX 358	Exercise & Aging
		EX 255	Nutr. Aspects of Health/Performance
			Foundational Core 5

EX 101 or

EX 201

EX 201

PY 104

Leadership in Healthcare

Elements of Physics I w/ Lab

Updated 8/1/19

## SACRED HEART UNIVERSITY College of Health Professions

# **Exercise Science Major (Fall 2019 & Later)**

### Undergraduate Major in Exercise Science with MS in Athletic Training requirements

### SUGGESTED THREE YEAR SEQUENCE OF STUDY Total Credits: 122

YEAR 1	SEMESTER I (16 credits)	YEAR 1	SEMESTER 2 (17 credits)	YEAR 1	WINTER - SHU ONLINE (3 credits)
FYS 125 or	First Year Seminar	FYS 125 or	First Year Seminar or		LAE or Foundational Core 4
CTL 125	Critical Thinking	CTL 125	Critical Thinking		
BI 111/113	Concepts in Biology I with Lab	BI 112/114	Concepts in Biology II with Lab	YEAR 1	SUMMER (8 credits)
EX 100 or	Introduction to Exercise Science	EX 100 or	Introduction to Exercise Science	BI 206/208	Human Anatomy & Physiology I with Lab
PS 110	General Psychology	PS 110	General Psychology	BI 207/209	Human Anatomy & Physiology II with Lab
	Foundational Core 1	MA 140	Precalculus		
	Foundational Core 2		Foundational Core 3		
-					
YEAR 2	SEMESTER I (18 credits)	YEAR 2	SEMESTER 2 (18 credits)	YEAR 2	WINTER - SHU ONLINE (3 credits)
CIT 201	CIT Seminar 1	CIT 202	CIT Seminar 2		LAE or Foundational Core 4
MA 131	Elementary Statistics	EX 260	Kinesiology w/ Lab		
EX 240	Sports Medicine in Exercise Science w/ Lab	EX 250	Exercise Physiology w/ Lab	YEAR 2	SUMMER (6 credits)
	Free Elective	EX 290	Behavioral Aspects of Ex. Science		EX elective (200 level) or Free Elective
EX 101 or	Introduction to Personal Fitness & Conditioning	PS 295	Health Psychology		EX elective (200 level) or Free Elective
	-		Introduction to Personal Fitness &		
EX 201	Leadership in Healthcare	EX 101 or	Conditioning		
PY 104	Elements of Physics I w/ Lab	EX 201	Leadership in Healthcare		

YEAR 3	SEMESTER I (17 credits)	YEAR 3	SEMESTER 2 (16 credits)
EX 363	Dev. Strength & Condition. Programs w/ Lab	EX 362	Exercise Testing & Rx w/ Lab
	EX elective (200 level) or Free Elective	EX 397	Practical Applications of EX Sci.
	EX elective (200 level) or Free Elective	EX 366 or	Clincal Rotations
CH 117/119	Gen. Org/Bio Chem w/ Lab	EX 367 or	Internship
	Foundational Core 5	EX 397 or	Practical Applications of Exercise Science
		EX 398	Independent Research
		EX 255	Nutr. Aspects of Health/Performance
			Free Elective

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