

Bachelor of Science in Biology Graduation Requirements

Prerequisites for the Exercise Science Major:

- *BIOL 200/200L General Biology with Lab
- BIOL 201 Introduction to Scientific Literature
- BIOL 205/205L Biodiversity with Lab
- CHEM 121/121L General Chemistry with Lab
- CHEM 122/122L Organic and Biochemistry with Lab
- *MATH 130 Pre-calculus or MATH 251 Calculus (Recommended)
- PHYS 201/201L or PHYS 202/202L
- WR 320 Writing for the Discipline

*These courses may also fulfill General Education requirements.

General Requirements for Biology40

- BIOL 310 Genetics..... 4
- BIOL 499 Senior Capstone 2
- BIOL 495 Internship or BIOL 496 Research 3
- Choose from list 25 credits not in your concentration area 25

BIOL 311/311L Human Anatomy and Physiology I
 BIOL 312/312L Human Anatomy and Physiology II
 BIOL 317 Case Studies in Anatomy and Physiology
 BIOL 320 Cell Biology
 BIOL 330/330L Microbiology
 BIOL 340 Endocrinology
 BIOL 350 Ecology

BIOL 360 Vertebrate Zoology
 EXSC 310 Kinesiology
 EXSC 320 Exercise Physiology and Neuromuscular
 Conditioning
 EXSC 410 Biomechanics
 MATH 310 Statistics
 Other upper division biology or chemistry

- Choose one of the required concentrations listed below 6

Cell/Molecular Biology Concentration6

- BIOL 320 Cell Biology 3
- BIOL 410 Advanced Molecular Biology..... 3

Organismal/Ecological Biology Concentration6

- BIOL 350 Ecology 3
- BIOL 450 Advanced Organismal Biology..... 3

Graduation Requirements:

- Completion of 124 Credits
- Completion of 6 credits of mathematics or science beyond the general education (Core) requirements. These credits may be fulfilled with coursework from the major.
- Completion of General Education Core curriculum
- Completion of an Academic Major
- Minimum of 30 credits from NCU
- Minimum of 40 upper division credits (300 level of above)
- Minimum of 27 upper division credits in the major (one-third in case of minor)
- Cumulative GPA of 2.0 or better for all coursework, including transfer work
- At least a C- in each course in the major
- Satisfactory writing competency
- Applied to graduate

General Education Core Requirements-BS

- Additional 6 (six) credits of Mathematics or Science (these courses can meet major courses)**
- Writing**..... 6
 - WR 121 English Composition..... 3
 - WR 123 English Composition..... 3
- Interdisciplinary Studies** 11-12
 - Choose one from: HIST 151, HIST 161, IDS 151 3
 - Choose one from: HIST 152, HIST 162 or IDS 152..... 3
 - IDS 251 Engaging American Thought & Culture 3
 - IDS 251S Appreciation of American Thought & Culture Seminar 2
 - FYS 101 First-Year Seminar* 1

(*Not required for transfer students with 24 or more earned semester credits)
- Humanities**..... 6
 - PHL 210 Ethics..... 3
 - Communications Elective (choose one of the following)..... 3
 COMM 212 Public Speaking or COMM 213 Interpersonal Communication
- Social Sciences** 5-6
 - Choose courses from at least two of the following areas:

<input type="checkbox"/> Anthropology	<input type="checkbox"/> History
<input type="checkbox"/> Business	<input type="checkbox"/> Psychology
<input type="checkbox"/> Economics	<input type="checkbox"/> Religion
<input type="checkbox"/> Education	<input type="checkbox"/> Sociology
- Math/Science/Computer**..... 6-9
 - Minimum six credits with at least one course in each of the following areas:
 - One science course with lab
 - One college-level mathematics course
 - One computer course—these NCU courses meet the computer requirement:
 - CIS 123 Word Processing, Spreadsheets and Presentations
 - CIS 125 Introduction to Web Page Design
 - CIS 130 Introduction to Computer Sciences and Organization Theory
 - EDUC 230 Technology for Teaching and Learning
 - MUS 118/119 Music Technology/Pro Tools 101
- Diversity Studies** ***one course**
 - Chose one course from approved electives in the following list:

ANTH 210 Cultural Anthropology	HIST 240 History of the Pacific Northwest
BTH 240 Christianity in America	RELS 210 The Abrahamic Faiths of Judaism and Islam
BUS 120 History of Entrepreneurship	RELS 220 Living Religious Traditions of the Far East
COMM 220 Intercultural Communication	SOC 200 Introduction to Sociology
EDUC 210 School Diversity	

*Some of the approved courses may also fulfill requirements in other areas of the general education core (e.g., communication, social sciences).
- Bible & Christian Ministry Studies**..... 12
 - BTH 101/102 Engaging with the Bible 6
 - *CM 240 All Are Gifted, All Are Called 2
 - Any BTH elective at the 200 level or above 4

*EDUC 415 Faith Integration and Teaching Seminar is an approved alternative for Teacher Education majors.
- Health/Physical Education**..... 2
 - Choose courses from Physical Education or Sports/Athletics

Minimum General Education CORE for all majors 48