

Bachelor of Science – Biology
Pre-Physical Therapy, Occupational Therapy, Physician Associate

An undergraduate degree from Washington State University requires a minimum of 120 total semester hours. The University, College of Arts and Sciences, and School of Biological Sciences each have specific requirements for a degree; checklists for these requirements are provided on the second page of this sheet. Requirements and electives for the specific degree and option headlined above are listed below this paragraph. All official requirements for each student’s specific degree are listed in the student’s my.wsu.edu Academic Requirement Report. This sheet is only meant to serve as a guide.

Biology Core Requirements:

| <u>Biological Sciences Requirements:</u> | | Semester/Year | Credits | Grade |
|--|---------------------------------------|---------------|---------|-------|
| BIOLOGY 106 | Intro Biology: Organismal | | 4 | _____ |
| BIOLOGY 107 | Intro Biology: Cell Bio & Genetics | | 4 | _____ |
| BIOLOGY 301 | General Genetics | | 4 | _____ |
| BIOLOGY 370 [M] | Ecology of Health & Disease OR | | | |
| BIOLOGY 372 [M] | General Ecology | | 4 | _____ |
| BIOLOGY 395 | Evolutionary Medicine OR | | | |
| BIOLOGY 403 | Evolutionary Biology OR | | | |
| BIOLOGY 405 | Prin. of Organic Evolution | | 3 | _____ |

Calculus Requirement:

| | | | | |
|----------|--|--|---|-------|
| MATH 140 | Calculus for Life Scientists OR | | | |
| MATH 171 | Calculus I | | 4 | _____ |

Statistics Requirement:

| | | | | |
|-----------|--|--|-----|-------|
| STAT 212 | Intro to Statistical Methods OR | | | |
| STAT 412 | Stat Methods in Research I OR | | | |
| PSYCH 311 | Statistics in Psychology | | 3-4 | _____ |

Chemistry Requirement:

| | | | | |
|-----------|----------------------------|--|---|-------|
| CHEM 105* | Principles of Chemistry I | | 4 | _____ |
| CHEM 106* | Principles of Chemistry II | | 4 | _____ |
| CHEM 345 | Organic Chemistry I | | 4 | _____ |

Physics Requirement:

| | | | | |
|-----------|---------------------------------|--|---|-------|
| PHYS 101* | General Physics I OR | | | |
| PHYS 201* | Physics for Sci. & Engineers I | | 4 | _____ |
| PHYS 102 | General Physics II OR | | | |
| PHYS 202 | Physics for Sci. & Engineers II | | 4 | _____ |

Pre-PT/OT/PA Requirements (All Three Areas):

| | | | | |
|------------------|---|--|---|-------|
| BIOLOGY 251 | Introductory Human Physiology OR | | | |
| BIOLOGY 353 | Advanced Human Physiology | | 4 | _____ |
| BIOLOGY 315 | Gross and Microanatomy OR | | | |
| BIOLOGY 354 | Human Anatomy for Health Professions | | 4 | _____ |
| PSYCH 105 [SSCI] | Introductory Psychology | | 3 | _____ |
| PSYCH 333 | Abnormal Psychology | | 3 | _____ |
| SOC 101 [SSCI] | Introduction to Sociology | | 3 | _____ |
| PHIL 365 [HUM] | Biomedical Ethics | | 3 | _____ |
| ENGL 402 [WRTG] | Technical and Professional Writing | | 3 | _____ |

Additional Physical Therapy Requirements Only:

PSYCH 361 Developmental Psychology **OR**

H_D 101 [SSCI] Human Development Across the
Life Span

Semester/Year

Grade

3 _____

KINES 380 Introduction to Exercise Physiology

OR

BIOLOGY 350 Comparative Physiology

OR

BIOLOGY 352 Cells

3-4 _____

BIOLOGY 393[M] Professional Communications in
Biology

OR

BIOLOGY 490[M] Professional Seminar in Physical
Therapy

2 _____

Additional Physician Associate Requirements Only:

PSYCH 361 Developmental Psychology

OR

H_D 101 [SSCI] Human Development Across the Life
Span

3 _____

CHEM 370 Chemical Biology

OR

MBIOS 303 Introductory Biochemistry

3-4 _____

MBIOS 304 Microbiology and Molecular Biology
Laboratory

OR

MBIOS 306 General Microbiology Laboratory

2-3 _____

MBIOS 305 General Microbiology

3 _____

Additional Occupational Therapy Requirements Only:

ANTH 203 [DIVR] Global Cultural Diversity

3 _____

BIOLOGY 220 Medical Terminology

2 _____

BIOLOGY 393 [M] Professional Communications in Biology

2 _____

Com 102 [COMM] Public Speaking in the Digital Age

3 _____

H_D 101 [SSCI] Human Development Across the Life
Span

3 _____

UCORE and College of Arts and Sciences Requirements

| | Grade | | Semester/Year | Credits |
|--------|-------|-------------------------------------|---------------|---------|
| [ROOT] | _____ | Roots of Contemporary Issues | | (3) |
| [COMM] | _____ | Communication OR | | (3) |
| [WRTG] | _____ | Written Communication | | (3) |
| [WRTG] | _____ | Written Communication | | (3) |
| [QUAN] | _____ | Quantitative Reasoning | | (3) |
| [SSCI] | _____ | Inquiry in the Social Sciences | | (3) |
| [HUM] | _____ | Inquiry in the Humanities | | (3) |
| [ARTS] | _____ | Inquiry in the Arts | | (3) |
| [BSCI] | _____ | Inquiry in the Biological Sciences | | (3) |
| [PSCI] | _____ | Inquiry in the Physical Sciences | | (3) |
| [EQJS] | _____ | Inquiry into Equity and Justice | | (3) |
| [DIVR] | _____ | Diversity | | (3) |
| [CAPS] | _____ | Integrative Biology Capstone | | (3) |
| [M] | _____ | Writing in the Major (Biology) | | (2-4) |
| [M] | _____ | Writing in the Major (Biology) | | (2-4) |

Note: Three UCORE courses of 3 credits (9 credits total) may fulfill major requirements.

- _____ Foreign Language 1 yr. or 2 yrs. HS (CAS)
- _____ Upper Division 3xx-4xx (Minimum 40 credits)
- _____ Minimum Total Credits (120)
- _____ University Writing Portfolio

<https://writingprogram.wsu.edu/uwpsubmission/>

School of Biological Sciences Requirements

- A minimum of 120 total semester hours.
- At least 40 semester hours must be 300 and 400 level coursework.
- A minimum of 19 semester hours of core BIOLOGY courses (BIOLOGY 106; 107; 301; 370 or 372; and 395 or 403 or 405).
- An additional 21 semester hours of biological sciences coursework selected in consultation with your biology advisor. The 21 semester hours must include 15 credits of 300 and 400 level courses, six of which must be BIOLOGY taken in residence at WSU. See guidelines for the many BIOLOGY options that are available to structure your course selections.
- An overall GPA of at least 2.0 must be maintained in all college and departmental requirements.
- A maximum of four credits of coursework that are graded S,F may be used toward fulfilling School requirements or program options, and no other courses taken S,F can be applied toward fulfilling School requirements or program options.
- Two BIOLOGY courses to satisfy the "Writing in the Major" [M] requirement.
- One BIOLOGY course to satisfy the "Capstone" [CAPS] requirement.