

Advising Worksheet
Catalog Year 2024-2025
Liberal Arts & Sciences A.A.: Biology
A.A. Degree – 61-63 Credits

NOTE: Successful completion of this pathway will be indicated on the student transcript as a Concentration in Biology. Students are responsible for determining the transferability of courses to a particular program at another institution.

FALL 1

| Course ID | Course Name | Credits | Prerequisites & Course information |
|---------------|---------------------------------|-----------|--|
| FYE 101 | First Year Experience | 1 | |
| BIO 104 | Principles of Biology I Lecture | 3 | Co-requisite: BIO 114 |
| BIO 114 | Principles of Biology I Lab | 1 | Co-requisite: BIO 104 |
| CHM 120 | General Chemistry I | 4 | High school Chemistry and Algebra (or placement into College Algebra |
| ENG110 | English Composition I | 3 | By placement exemption or exam |
| Math Elective | Math Elective: Select from list | 3 | Recommended: MAT145 |
| | Total Credits | 15 | |

SPRING 1

| | | | |
|------------------|--|-----------|--|
| BIO 106 | Principles of Biology II Lecture | 3 | Prerequisite: BIO 104 Co-requisite: BIO 116 |
| BIO 116 | Principles of Biology II Lab | 1 | Prerequisite: BIO 114 Co-requisite: BIO 106 |
| Math/Science | Select from list | 4 | |
| English Elective | English Composition II, Technical Writing, or Research Writing | 3 | Prerequisite: ENG 110 for ENG200, ENG205 Corequisite: ENG110 for ENG225 |
| Math Elective | Math Elective: Select from list | 3 | Recommended: MAT200 |
| | Total Credits | 14 | |

SUMMER 1

| | | | |
|---------|----------------------|----------|----------------------|
| PHY 110 | Physics I Lecture/ | 3 | Prerequisite: MAT145 |
| PHY 111 | Physics I Lab | 1 | |
| CIT 100 | Micro Computer Apps | 3 | |
| | Total Credits | 7 | |

FALL 2

| | | | |
|----------------------------|----------------------|--------------|-------------------------------|
| Open | Select from List | 3/4 | Recommended MAT 210 |
| Science Elective | Select from list | 3/4 | |
| Values and Ethics Elective | Select from list | 3 | Recommended: HIS100 or HIS110 |
| Open | Select from list | 3 | |
| | Total Credits | 12-14 | |

SPRING 2

| | | | |
|---|----------------------|--------------|--|
| Communication Elective | | 3 | Recommended: COM101 Public Speaking |
| Cultural Awareness and Global Perspectives Elective | Select from list | 3 | Recommended: ART101 or MUS100 |
| Social Science Elective | Select from list | 3 | Recommended: PSY100 General Psychology |
| Science Elective | Select from list | 3/4 | |
| | Total Credits | 12/13 | |

Minimum credits to earn A.A. Degree:

61-63

Math Electives

MAT 145 – College Algebra* (PR: MAT 131 or Placement)
MAT 170 – Precalculus* (PR: MAT 145)
MAT 200 – Probability & Statistics*
MAT 204 – Discrete Mathematics (PR: MAT 145)

MAT 205 – Applied Calculus for Business (PR: MAT 145 or placement)
MAT 210 – Calculus I* (PR: MAT 170 or placement)
MAT 220 – Calculus II (PR: MAT 220)

Science Electives

AST 100 – Introduction to Astronomy (3-credit) *
BIO 102 – Life Science (3-credit)
BIO 202/212 – Anatomy & Physiology I Lecture & Lab (PR: BIO 104/114)
BIO 204/214 – Anatomy & Physiology II Lecture & Lab (PR: BIO 202/212)
BIO 206/216 – Microbiology Lecture & Lab (PR: BIO 104/114 or BIO 202/212)
BIO 207/217 – Ecology Lecture & Lab (PR: BIO 104/114 and MAT 131)
BIO 208/218 – Genetics Lecture & Lab (PR: BIO 104/114)

CHM 115 – Chemistry for Healthcare (4-credit)
CHM 120 – General Chemistry I (4-credit)
ENV 110 – Introduction to Environmental Science (3-credit)
GLG 102/103 – Introduction to Geology Lecture and Lab (optional)
HSC 130 – Basic Anatomy and Physiology (CR: HSC 100)
PHY 102/103 – Concepts of Physics Lecture & Lab
PHY 115/116 – Physics II (Algebra-Based) Lecture & Lab* (PR: PHY 110/111)

Values and Ethics Electives

Students must select one course to meet the Value and Ethics requirement. The selected course may not meet any other program or general education requirement.

AST 100 – Introduction to Astronomy*
BUS 130 – Personal Consumer Finance
CIV 100 – Western Civilization: Ancient through Renaissance*
CIV 110 – Western Civilization: Renaissance to Present*
COM 200 – Media and Society
ENG 105 – Effective Writing for the Workplace
ENG 215 – Creative Writing (CR: ENG 110)
ENG 220 – Business Letter and Report Writing (CR: ENG 110)
ENG 225 – Technical Writing (PR: ENG 110)
ENG 235 – Survey of American Literature II* (CR: ENG 110)
ENG 245 – Survey of British Literature II* (CR: ENG 110)
ENV 110 – Introduction to Environmental Science
GLG 102/103 – Introduction to Geology
GOV 100 – Introduction to American National Government*
GOV 210 – Current Events and Contemporary Issues

HIS 100 – U.S. History I: Discovery through Reconstruction*
HIS 110 – U.S. History II: Reconstruction to Present*
HIS 205 – American Popular Culture
HIS 210 – The Civil War and Reconstruction
HIS 215- History Through Film
HIS 250 – World War II through Film
LIF 111 – Health and Wellness
PHI 100 – Critical Thinking
PHI 110 – Introduction to Philosophy*
PHI 200 – Introduction to Ethics
REL 100 – World Religions/Religious Studies
REL 200 – Understanding the Bible

Social Science Electives

ANT 100 – Introduction to Cultural Anthropology*
CIV 100 – Western Civilization: Ancient through Renaissance*
CIV 110 – Western Civilization: Renaissance to Present*
CIV 200 – Ancient Rome and the Barbarians
CRJ 110 – Introduction to Criminal Justice
ECO 100 – Macroeconomics*
ECO 110 – Microeconomics*
GEO 100 – Introduction to Geography
GOV 100 – Introduction to American National Government*
GOV 210 – Current Events and Contemporary Issues
HIS 100 – U.S. History I: Discovery through Reconstruction*
HIS 110 – U.S. History II: Reconstruction to Present*
HIS 200 – History of American Immigration

HIS 205 – American Popular Culture
HIS 210 – The Civil War and Reconstruction
HIS 250 – World War II through Film
PSY 100 – General Psychology*
PSY 130 – Human Development Across the Lifespan*
PSY 200 – Abnormal Psychology (PR: PSY 100)
PSY 215 – Death and Dying (PR: ENG 110)
SOC 100 – Introduction to Sociology*
SOC 125 – Drugs in Society (change to SOC prefix)
SOC 200 – Contemporary Social Issues* (PR: SOC 100)
SOC 205 – Race, Class, and Gender in Society (PR: SOC 100)
SWK 135 – Families in Society (re-prefix to SOC 135)

Cultural Awareness and Global Perspectives Electives

Students must select one course to meet the Cultural Awareness and Global Perspectives requirement. The selected course may not meet any other program or general education requirement.

ANT 100 – Introduction to Cultural Anthropology*
ART 101 – Introduction to Art History*
ART 105 – Drawing Fundamentals*
ART 110 – Introduction to Painting and Sculpting*

ASL 101 – American Sign Language I
CIV 100 – Western Civilization: Ancient through Renaissance*
CIV 110 – Western Civilization: Renaissance to Present*
ENG 250 – Women in Literature (CR: ENG 110)

ENG 271 – World Literature* (CR: ENG 110)
FLM 110 – Introduction to American Cinema
GEO 100 – Introduction to Geography
HIS 200 – History of American Immigration
HUM 100 – Introduction to Humanities
MUS 100 – Introduction to Music*
MUS 200 – History of Rock n’ Roll

PSY 215 – Death and Dying (PR: ENG 110)
REL 100 – World Religions/Religious Studies
SOC 100 – Introduction to Sociology*
SOC 200 – Contemporary Social Issues (PR: SOC 100)
SOC 205 – Race, Class, and Gender in Society (PR: SOC 100)
SPA 101 – Spanish I*
SPA 102 – Spanish II* (PR: SPA 101)

*Students who successfully complete these courses can have their credits transferred and counted towards graduation at any of the participating PA TRAC colleges and universities. Please be aware that certain majors may have specific requirements prescribed by external agencies. It is the student’s responsibility to work with an advisor and/or transfer counselor to select appropriate courses as they refer to the major. See Transfer Central on myPEAK under Advising for a full list of Transfer Counselors.

Key: PR – Pre-requisite; CR – Co-requisite