

**Advising Worksheet**  
**Catalog Year 2018-2019**  
**Liberal Arts & Sciences A.A.: Biology (for Science)**  
**A.A. Degree - 62 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. Organic Chemistry I and Organic Chemistry II, typical second-year chemistry courses, will have to be taken at the transfer institution. Math requirements may also vary and are dependent upon the transfer school.

<b>Student Name:</b>	<b>ID#</b>
<b>Advisor:</b>	

**SEM I/FA**

Course ID	Course Name	Credits	Semester	Prerequisites & Course information	Initials
ACP100	Academic and Career Planning	1			
Science Elective	BIO 104 Principles of Biology I Lecture	3		Co-requisite: BIO 114	
Science Elective	BIO 114 Principles of Biology I Lab	1		Co-requisite: BIO 104	
<b>Concentration Elective</b>	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	MAT 210 Calculus I	4		MAT 170 – Precalculus or placement exam	
	<b>Total Credits</b>	<b>16</b>			

**SEM II/SP**

<b>Concentration Elective</b>	BIO 106 Principles of Biology II Lecture	3		Prerequisite: BIO 104 Co-requisite: BIO 116	
<b>Concentration Elective</b>	BIO 116 Principles of Biology II Lab	1		Prerequisite: BIO 104	
<b>Concentration Elective</b>	CHM 122 General Chemistry II	4		Prerequisite: CHM 120	
ENG 200	English Composition II: Studies in Literature	3		Prerequisite: ENG 110 English Composition I	
<b>Concentration Elective</b>	MAT 200 Probability & Statistics	3		Prerequisite: MAT 110, MAT 126, MAT 131, <u>or</u> higher, or by placement exam.	
	<b>Total Credits</b>	<b>14</b>			

**SEM III/FA**

COM 101	Public Speaking	3			
<b>Concentration Elective</b>	PHY 110 Physics (Algebra-based) I Lecture	3		Prerequisite: MAT 115, MAT 117, <u>or</u> MAT 131. Co-requisite: PHY 111	
<b>Concentration Elective</b>	PHY 111 Physics (Algebra-based) I Lab	1		Prerequisite: MAT 115, MAT 117, <u>or</u> MAT 131. Co-requisite: PHY 110	
Social Science Track I Elective	Recommended: HIS100 or HIS110	3			
Humanities or Social Science Elective	Recommended: ART101 or MUS100	3			
Humanities Track I Elective	Recommended: PHI110 or REL100	3			
	<b>Total Credits</b>	<b>16</b>			

**SEM IV/SP**

<b>Concentration Elective</b>	BIO 208 Genetics Lecture	3		Prerequisite: BIO 104 Co-requisite: BIO 218	
<b>Concentration Elective</b>	BIO 218 Genetics Lab	1		Prerequisite: BIO 104 Co-requisite: BIO 208	
CIT 100	Microcomputer Applications	3			
Humanities Track 2 Elective	ENG 205 Research Writing	3		Prerequisite: ENG 110	
Social Science Track 2 Elective	PSY100 General Psychology	3			
Elective	Open	3			
	<b>Total Credits</b>	<b>16</b>			

**Minimum credits to earn A.A. Degree:****62**

**Note(s):** Students are responsible for determining the transferability of courses to a particular program at another institution. Organic Chemistry I and Organic Chemistry II, typical second-year chemistry courses, will have to be taken at the transfer institution. Math requirements may also vary and are dependent upon the transfer school.

## ADVISING PLANNING RUBRIC

Take this rubric to each advising appointment to discuss these points with your advisor to stay on track in meeting your goals.

Check Point	Student Learning Outcome	Not met	In Progress	Completed
By 6-15 credits	✓ Have met with your advisor at least once per semester before Priority Registration to review short-term and long-term goals described in the Academic Planning Survey. Map out a draft of a plan for courses each semester.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Are able to identify tools available on myPEAK such as Degree Audit and Course Search.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have explored the College Catalog available online.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Are able to locate college offices and services available to you such as Career Services, Student Success Center, Financial Aid, Writing/Math Center, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have investigated specific program requirements for your major such as clearances, internship requirements, minimum GPA, etc. Consult college catalog and advising worksheet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have begun researching career paths and consider reviewing Career Coach assessment results with career counselor, setting up job shadow in at least one area of interest, and/or attending the Job/Internship/Transfer Fair.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
By 24-30 credits	✓ Have met with your advisor at least once per semester before Priority Registration to review academic progress and plans for work or transfer.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Are able to use tools available on myPEAK under the Advising tab, Registration tab, and Pay for College tab such as Degree Audit, Course Search, GPA calculator, and Financial Aid Document Tracking.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have met with Career Services to begin building a resume and to activate your College Central account to prepare for a job search. Connect with a 4-year transfer counselor if transferring.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Can list the exact courses and program requirements needed to graduate with chosen major.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have explored the PA TRAC website (pacollegegtransfer.com) as well as Transfer Central on myPEAK for transfer and articulation information.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
By 36-45 credits	✓ Have met with your advisor at least once per semester before Priority Registration to review progress and to prepare for registration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have identified an internship with your advisor or career counselor if entering the workforce, or have begun visiting and applying to four-year schools if transferring.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have applied for graduation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
By 60+ credits	✓ Have met with your advisor at least once per semester before Priority Registration to review progress and to prepare for registration.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have begun job searching and/or followed up on status of applications to four-year schools.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	✓ Have begun planning your academic requirements at your intended four-year program (if transferring).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Student Name** Click or tap here to enter text.

**Advisor Name** Click or tap here to enter text.

### Pathway Concentrations (Optional)

Students may pursue one of eight pathway concentrations within the Liberal Arts and Sciences A.A. Degree. Concentration courses are taken as part of the open elective course requirements of the degree. Students must complete a minimum of 12 credits and should follow the specific pathway concentration Advising Worksheet to take advantage of this option. Pathway concentrations are available for the following:

- *Liberal Arts & Sciences: Biology (Education)*
- *Liberal Arts & Sciences: Biology (Pre-Professional)*
- *Liberal Arts & Sciences: Biology (Sciences)*
- *Liberal Arts & Sciences: Chemistry (Education)*
- *Liberal Arts & Sciences: Chemistry (Sciences)*
- *Liberal Arts & Sciences: Communications*
- *Liberal Arts & Sciences: English*
- *Liberal Arts & Sciences: History*
- *Liberal Arts & Sciences: Individualized Studies*
- *Liberal Arts & Sciences: Online Pathway*

*Please note that Concentration Electives cannot be used to satisfy General Education Requirements.*

**Math Electives**

MAT 116 - Math Concepts & Applications  
MAT 145 - College Algebra  
MAT 170 - Precalculus  
MAT 200 – Probability & Statistics  
MAT 204 - Discrete Mathematics  
MAT 205 - Applied Calculus for Business  
MAT 210 - Calculus I  
MAT 220 - Calculus II  
MAT 230 - Calculus III  
MAT 240 - Differential Equations

**Science Electives**

BIO 104 - Principles of Biology I AND BIO 114-Principles of Biology I Lab  
BIO 106- Principles of Biology II AND BIO 116- Principles of Biology II Lab  
BIO 108- Forensics Biology AND BIO 118- Forensics Biology Lab  
BIO 202- Anatomy and Physiology I AND BIO 212-Anatomy and Physiology I Lab  
BIO 204- Anatomy and Physiology II AND BIO 214- Anatomy and Physiology II Lab  
BIO 206- Microbiology AND BIO 216- Microbiology Lab  
BIO 207- Ecology AND BIO 217- Ecology Lab  
BIO 208- Genetics AND BIO 218- Genetics Lab  
CHM 106 - Introductory Chemistry  
CHM 110 – Survey of Organic & Biochemistry  
CHM 120 - General Chemistry I  
CHM 122 – General Chemistry II  
GLG 102/103 Introduction to Geology and Lab  
PHY 102 – Concepts of Physics AND PHY 103 Concepts of Physics Laboratory  
PHY 110 - Physics (Algebra-Based) I AND PHY 111 Physics Lab (Algebra-Based) I  
PHY 115- Physics (Algebra-Based) II AND PHY 116- Physics Lab (Algebra-Based) II  
PHY 120 - Physics (Calculus Based) I AND PHY 121 Physics (Calculus Based) I Lab  
PHY 130 - Physics (Calculus Based) II AND PHY 131 Physics (Calculus Based) II Lab

**Social Science Track 1 Electives**

\*CIV 100 - Western Civilization: Ancient through Renaissance  
\*CIV 110 - Western Civilization: Renaissance to Present  
GEO 100 - Introduction to Geography  
GEO 110 - World Regional 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 - American Immigration  
HIS 205 - American Popular Culture  
HIS 210 - The Civil War and Reconstruction  
HIS 220 - The Vietnam War  
HIS 250 - World War II through Film

\*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.

**Social Science Track 2 Electives**

\*ANT 100 - Introduction to Cultural Anthropology  
CRJ 105- Institutional and Community Corrections  
CRJ 110- Introduction to Criminal Justice  
CRJ 115- Ethics in Criminal Justice  
CRJ 150 – Juvenile Justice  
CRJ 215 - Criminal Law and Procedure  
CRJ 225 – Criminological Theory  
CRJ 235 – Criminal Investigation and Policing  
CRJ 260 – Deviance & Victimology  
\*ECO 100 - Macroeconomics  
\*ECO 110 - Microeconomics  
\*PSY 100 - General Psychology  
PSY 130 – Human Development Across the Lifespan  
PSY 200 - Abnormal Psychology  
PSY 210 – Psychology of Aging  
PSY 215 - Death and Dying  
PSY 220 – Introduction to Counseling  
\*SOC 100 - Introduction to Sociology  
\*SOC 200 – Contemporary Social Issues  
SOC 205- Race, Class, and Gender in Society

**Humanities Track 1 Electives**

\*ART 101 - Introduction to Art History  
\*MUS 100 - Introduction to Music  
\*PHI 110 - Introduction to Philosophy  
REL 100 – World Religions/Religious Studies

**Humanities Track 2 Electives**

ART 105 – Drawing Fundamentals  
\*ART 110 - Introduction to Painting and Sculpting  
ASL 101- American Sign Language I  
BUS 225 – Business Ethics  
ENG 205 - Research Writing  
ENG 215 – Creative Writing  
ENG 230 - Survey of American Literature I  
ENG 235 - Survey of American Literature II  
ENG 240 - Survey of British Literature I  
ENG 245 - Survey of British Literature II  
ENG 250 - Women and Literature  
ENG 255 – Literature for Children and Adolescents  
ENG 271 – World Literature  
FLM 110 - Introduction to American Cinema  
FRE 101 – French I  
FRE 102 – French II  
GER 101 – Elementary German I  
GER 102- Elementary German II  
HUM 100 - Introduction to Humanities  
HUM 215 - Introduction to Women and Gender Studies  
MUS 200 - Popular American Music in the Twentieth Century  
PHI 100 – Critical Thinking  
PHI 200 – Introduction to Ethics  
PHI 240 - Bioethics  
PHI 245 – Symbolic Logic  
REL 200 – Understanding the Bible  
REL 235/PHI 235 – Philosophy of Religion  
SPA 101 – Spanish I  
SPA 102 – Spanish II  
SPA 203 – Spanish III

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