

Associate of Arts / Science <BIOLOGY> – Field of Study

A *Field of Study* (FOS) is a selection of lower-division courses that are guaranteed by state law to transfer and apply to a Bachelor's degree program at a Texas public university. Upon completion of the Texas common core curriculum (TCCC), additional degree requirements (ADR) if any, and the FOS courses, you will have met the requirements to graduate with an Associate of Science and will have completed all the lower-division courses for the Bachelor's degree program. This is true even if the institution you transfer to requires a different selection of lower-division courses for their own freshmen or sophomores, and even if the institution has prerequisites for their upper-division courses that are not included in the FOS.

TCCC	FOS	ADR	1 st Semester	SCH	Advising Notes	
✓			ENGL 1301 – Composition I CORE	3	A student pursuing an AS degree with a Field of Study Emphasis toward Biology should consult with an advisor regarding exact requirements for Mathematics courses at the transfer institution. (*See notes regarding MATH courses.)	
✓			*MATH 1316- Plane Trigonometry CORE	3		
✓			*XXXX X3XX- Creative Arts Elective	3		
✓	✓		BIOL 1306- Biology for Science Majors I Core	3		
	✓		BIOL 1106- Biology for Science Majors I laboratory	1		
✓	✓		CHEM 1311- General Chemistry I CORE	3		
	✓		CHEM 1111- General Chemistry I Laboratory	1		
			Total SCH	17'		
TCCC	FOS	ADR	2 nd Semester	SCH	Advising Notes	
	✓		BIOL 1307- Biology for Science Majors II CORE	3	A student pursuing an AS degree with a Field of Study Emphasis in Biology should consult with an advisor regarding specific requirements that satisfy any Core Component Area Options at the transfer institution. (*See notes regarding Core Component Option Area courses.)	
	✓		BIOL 1107- Biology for Science Majors II Laboratory	1		
	✓		CHEM 1312- General Chemistry II CORE	3		
	✓		CHEM 1112- General Chemistry II Laboratory	1		
✓			ENGL 1302- Composition II CORE	3		
✓			*XXXX X3XX Component Area Option CORE	3		
			Total SCH	14		
TCCC	FOS	ADR	3 rd Semester	SCH	Advising Notes	
	✓		CHEM 2323- Organic Chemistry I	3	A student pursuing an AS degree with a Field of Study Emphasis in Biology should consult with an advisor regarding specific requirements that satisfy any Core Component Area Options at the transfer institution. (*See notes regarding Core Component Option Area courses.)	
	✓		CHEM 2123- Organic Chemistry I Laboratory	1		
✓			HIST 1301- United States History I CORE	3		
✓			*ENGL X3XX- Language, Philosophy and Culture CORE	3		
✓			*XXXX X3XX- Component Area Option CORE	3		
✓			GOVT 2305- Federal Government (Federal Constitution and Topics) CORE	3		
			Total SCH	16		
TCCC	FOS	ADR	4 th Semester	SCH	Advising Notes	
	✓		PHYS 1301 College Physics I CORE	3	A student pursuing an AS degree with a Field of Study Emphasis in Biology should consult with an advisor regarding specific requirements that satisfy any Core Component Area Options at the transfer institution. (*See notes regarding Core Component Option Area courses.)	
	✓		PHYS 1101 College Physics I Laboratory	1		
✓			HIST 1302- United states History II CORE	3		
✓			GOVT 2306-Texas Government (Texas Constitution and Topics) CORE	3		
✓			*XXXX X3XX- Social/Behavioral Science CORE	3		
			Total SCH	15		
42 sch	24 Sch	0 Sch	Total Degree Hours	60		

To complete this degree in 2 years it is recommended that you register for the total number of hours listed for each semester. If you cannot take the recommended number of sch, consult with your advisor for maymester, summer and wintermester options.

Mathematics course options: MATH 1314, MATH 1316, MATH 1324, MATH 1332, MATH 1342, MATH 2412, MATH 2413

Creative Arts course options: ARTS 1301, ARTS 1303, ARTS 1304, DANC 2303, DRAM 1310, MUSI 1306, MUSI 1308, MUSI 1309, MUSI 1310

Life and Physical Science course options: BIOL 1306, BIOL 1307, BIOL 1308, BIOL 1309, BIOL 1311, BIOL 1313, BIOL 2301, BIOL 2306, CHEM 1305, CHEM 1311, CHEM 1312, ENGR 1201, GEOL 1301, GWOL 1303, GEOL 1305, PHYS 1301, PHYS 1302, PHYS 1315, PHYS 1410, PHYS 1417, PHYS 2325, PHYS 2326

Language Philosophy and Culture course options: ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2332, ENGL 2333, ENGL 2351

Social Behavioral Science course options: ECON 2301, ECON 2302, PSYC 2301, PSYC 2306, PSYC 2308, PSYC 2314, PSYC 2317, SOCI 1301, SOCI 1306, SOCW 2361, SCOW 2362

Component Area Option course options: BCIS 1305, COSC 1301, COSC 1436, KINE 1304, SPCH 1311, SPCH 1315

Career Information

Common Job Titles

Biological Technician

Salary and Job Outlook: The Bureau of Labor Statistics (BLS) estimates that biological technicians earned a median annual salary of \$48,140 in May 2021.

Biochemist

Salary and Job Outlook: The BLS estimates that biochemists earned a median annual salary of \$102,270 in May 2021.

Genetic Counselor

Salary and Job Outlook: The BLS estimates that genetic counselors earned a median annual salary of \$80,150 in May 2021. The top 10% earned more than \$121,070 and the bottom 10% earned less than \$49,120. The BLS projected that employment in this field will grow by 26% between 2020 and 2030, much faster than average for all occupations.

Health Communications Specialists

Salary: According to Payscale, health communications specialists earn an average annual salary of \$63,335. The top 10% earned \$84,000 or more and the bottom 10% earned \$50,000 or less.

Health Educator

Salary and Job Outlook: The BLS estimates that health educators earned a median annual salary of \$48,860 in May 2021. The top 10% earned more than \$70,720 and the bottom 10% earned less than \$30,440. The BLS projected that employment in this field will grow by 17% between 2020 and 2030, much faster than average for all occupations.

Pharmaceutical/ Medical Product Sales Representative

Salary and Job Outlook: The BLS estimates that sales representatives of technical and scientific products earned a median annual salary of \$94,840 in May 2021. The top 10% earned more than \$168,320 and the bottom 10% earned less than \$44,460. The BLS projected that employment in this field will grow by 6% between 2020 and 2030, slower than average for all occupations.

Physician Assistant and Nurse Practitioner

Salary and Job Outlook: The BLS estimates that physician assistants earned a median annual salary of \$121,530 in May 2021. The top 10% earned more than \$164,620 and the bottom 10% earned less than \$77,940. The BLS projected employment in this field to grow by 31% between 2020 and 2030, much faster than average for all occupations.

Medical and Health Services Manager

Salary and Job Outlook: The BLS estimates that medical and health services managers earned a median annual salary of \$101,340 in May 2021. The top 10% earned more than \$205,620 while the bottom 10% earned less than \$60,780. The BLS projected that employment in this field will grow by 32% between 2020 and 2030, much faster than average for all occupations.

Career Resources:

<https://www.thebalancecareers.com/top-jobs-for-biology-majors-2059884>