

# ACCELERATED BACHELOR OF SCIENCE IN BIOLOGY/ PROFESSIONAL SCIENCE MASTER'S IN BIOTECHNOLOGY (P.S.M.)

## Plan of Study

### First Year

Fall		TCCN	SCHs
BIOL 1113 & BIOL 1111	Principles of Biology I and Principles of Biology I Laboratory	BIOL 1406 & BIOL 1106	4
CHEM 1113 & CHEM 1111	General Chemistry I and General Chemistry Laboratory I	CHEM 1311 & CHEM 1111	4
MATH 1303	College Algebra	MATH 1314	3
ENG 1013	Composition I	ENGL 1301	3
UNIV 1231	Learning Frameworks: First-Year Seminar	EDUC 1100, EDUC 1200, EDUC 1300	1
SCHs			15

Spring		TCCN	SCHs
BIOL 1123 & BIOL 1121	Principles of Biology II and Principles of Biology II Laboratory	BIOL 1407 & BIOL 1107	4
CHEM 1123 & CHEM 1121	General Chemistry II and General Chemistry Laboratory II	CHEM 1312 & CHEM 1112	4
HIST 1013	History of the United States, 1492-1865	HIST 1301	3
ENG 1023	Composition II	ENGL 1302	3
Elective			2
SCHs			16

Second Year		TCCN	SCHs
Fall			
BIOL 2113 & BIOL 2111	Plant Biology and Plant Biology Laboratory	BIOL 1411 & BIOL 1111	4
CHEM 2213 & CHEM 2211	Organic Chemistry I and Organic Chemistry Laboratory I	CHEM 2323 & CHEM 2123	4
POLS 2013	U.S. National Government	GOVT 2305	3
MATH 1703	Elementary Statistics I	MATH 1342	3
SCHs			14

Spring		TCCN	SCHs
BACT 3113 & BACT 3111	General Microbiology and General Microbiology Laboratory		4
CHEM 3223 & CHEM 3221	Organic Chemistry II and Organic Chemistry Laboratory II		4
POLS 2023	Texas Government	GOVT 2306	3

Creative Arts Core Course	3
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SCHs	14
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### Third Year

Fall		TCCN	SCHs
BIOL 4813 & BIOL 4811	Molecular and Cellular Biology: Gene Expression and Molecular and Cellular Biology: Gene Expression Laboratory		4
Biology Elective			4
Multicultural Women's Studies CAO Core			3
Minor Elective			3
General or Minor Elective			3
SCHs			17

Spring		TCCN	SCHs
BIOL 4823 & BIOL 4821	Molecular and Cellular Biology: Genetics and Inheritance and Molecular and Cellular Biology: Genetics and Inheritance Laboratory		4
ZOOL 4243 & ZOOL 4241	Medical Physiology and Medical Physiology Laboratory		4
HIST 1023	History of the United States, 1865 to the Present	HIST 1302	3
Language, Philosophy, & Culture Core			3
SCHs			14

SCHs	14
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### Fourth Year

Fall		TCCN	SCHs
PHYS 1133 & PHYS 1131	Principles of Physics I and Principles of Physics Laboratory I	PHYS 1301 & PHYS 1101	4
BIOL 4681	Biology Seminar		1
BIOL 5293	Advanced Scientific Communication		3
BUS 5013	Foundations in Business		3
Upper-level General or Minor Elective			4
SCHs			15

Spring		TCCN	SCHs
PHYS 1143 & PHYS 1141	Principles of Physics II and Principles of Physics Laboratory II	PHYS 1302 & PHYS 1102	4
BIOL 5503	Research Methods		3
BIOL 5903	Special Topics		3
Global Perspectives Elective			3
Social & Behavioral Science Core			3
SCHs			16

Total SCHs:	121
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This plan of study is for completion of the undergraduate portion of the accelerated B.S. in Biology/P.S.M. in Biotechnology program. In the final semester of the B.S. in Biology, students must apply for formal admission to the P.S.M. in Biotechnology graduate program and meet all admissions requirements. Please see the Graduate Catalog for a complete list of degree requirements for the P.S.M. in Biotechnology program (<https://catalog.twu.edu/graduate/arts-sciences/biology/professional-science-master-biotechnology/>).