

Associate of Science (AS) in Agriculture

Suggested Degree Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring – Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
PLSC 1003 Introduction to Plant Science	3	AGEC 2073 Principles of Agricultural Economics	3
Mathematics (MATH 1023, MATH 1045 or MATH 1525)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	PLSC 2002/2001 Principles of Horticulture/ Lab	3
GSTD 1002 Freshman Seminar	2	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab*	4	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	AGED 2011/2012 Agricultural Structures/Lab	3
ANSC 2013 Animal Anatomy and Physiology	3	ANSC 2002/2001 Animal Nutrition I/Lab	3
Elective	1	PLSC 2012/2011 Soil Science/Lab	3
Total Semester Hours	14	Total Semester Hours	15

Total hours required for major - 60

*Required for Agricultural Science

BS Agricultural Business

Suggested Plan of Study

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Fall – Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
PLSC 1003 Introduction to Plant Science	3	PLSC 2002/2001 Principles of Horticulture/Lab	3
ANSC 1003/1001 Intro to Animal Science/Lab	4	AGEC 2073 Principles of Agricultural Economics	3
GSTD 1002 Freshman Seminar	2	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
Total Semester Hours	15	Total Semester Hours	16
Fall – Semester 3		Spring - Semester 4	
AGEC 3043 Farm Management	3	ANSC 2002/2001 Animal Nutrition I/Lab	3
CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	4	AGEC 2103 Agribusiness Financial Statements and Planning	3
ANSC 2013 Animal Anatomy and Physiology	3	PLSC 2012/2011 Soil Science/Lab	3
ACCT 2113 Survey of Accounting	3	ECON 2203 Principles of Macroeconomics	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Total Semester Hours	16	Total Semester Hours	15
Fall – Semester 5		Spring - Semester 6	
AGEC 3003 Marketing of Agricultural Products	3	AGEC 4023 Agribusiness Venture & Management	3
AGED 3003 Leadership and Communications	3	GBUS 2003 Legal Environment of Business	3
GBUS 2013 Statistics and Analytics I	3	AGEC 3033 Agricultural Futures and Options	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
		AGEC 3063 Agri Data Management & Analysis	3
Total Semester Hours	12	Total Semester Hours	15
Fall – Semester 7		Spring - Semester 8	
AGEC 4013 International Business in Agriculture	3	Agricultural Mechanics Elective	3
UL Agricultural Economics Elective	3	AGEC 3083 Agribusiness Entrepreneurship	3
AGRI 4033 Issues in Agriculture	3	AGEC 4043 Agribusiness Finance	3
MGMT 3023 Organizational Theory and Behavior	3	UL Agricultural Science Elective	4
UL Agricultural Science Elective	3	MGMT 2003 Business Communications	3
Total Semester Hours	15	Total Semester Hours	16

Total hours required for major – 120

Offered in Fall	Offered in Spring
Agricultural Business Electives	
AGEC 4053 Agribusiness Problems and Policies	AGEC 4063 Risk Management in Agriculture
Agricultural Science Electives	
AGEC 4501-3 Special Problems in Agricultural Business	AGEC 4501-3 Special Problems in Agricultural Business
ANSC 3113/3111 Non-Ruminant Animal Production/Lab	ANSC 3103/3101 Ruminant Animal Production/Lab
PLSC 3032/3031 Greenhouse Management/Lab	
Agricultural Mechanics Electives	
AGED 2021/2022 Agricultural Metals/Lab	AGED 2001/2002 Agricultural Power/Lab
AGED 2031/2032 Agricultural Mechanics Applications/Lab	AGED 2011/2012 Agricultural Structures/Lab
	AGED 2021/2022 Agricultural Metals/Lab

BS Agricultural Education

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Mathematics Choice: (MATH 1023, MATH 1045 or MATH 1525)	3	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
PLSC 1003 Introduction to Plant Science	3	AGED 2003 Intro to Agricultural Education	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	PLSC 2002/2001 Principles of Horticulture/Lab	3
GSTD 1002 Freshman Seminar	2	AGEC 2073 Agriculture Economics	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 1013/1011 College Chemistry I or CHEM 1023/1021 University Chemistry I	4	AGED 3003 Leadership and Communication	3
Agricultural Mechanics Choice	3	ANSC 2002/2001 Animal Nutrition I and Lab	3
ANSC 2013 Animal Anatomy and Physiology	3	PLSC 2012/2011 Soils and Lab	3
PLSC 2022/2021 Elements of Forestry/Lab	3	Agricultural Mechanics Choice	3
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
AGEC 3043 Farm Management	3	AGED 4003 Methods of Teaching Agricultural Mechanics	3
AGED 4013 Methods in Agricultural Education	3	AGED 4023 Program Development	3
AGED 4033 Experiential Learning in Agriculture	3	AGRI 4033 Issues in Agriculture	3
PLSC 3032/3031 Greenhouse Management/Lab	3	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
ANSC 3202/3302 Animal Production/Lab	3	Agricultural Mechanics Choice	3
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
Conditional/unconditional admission to the EPP required for remaining coursework.			
TEDU 4006 Residency I	6	TEDU 4016 Residency II	6
TEDU 4001 Professional Learning I	1	TEDU 4011 Professional Learning II	1
EDUC 3013 Learning Theory	3	AGED 4001 Class and Grp Management in Ag. Ed.	1
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
SPED 4073 Introduction to Special Education	3		
Total Semester Hours	16	Total Semester Hours	11

Total hours required for major – 120

Offered in Fall	Offered in Spring
Agricultural Mechanics Electives	
AGED 2021/2022 Agricultural Metals/Lab	AGED 2011/2012 Agricultural Structures/Lab
AGED 2031/2032 Agricultural Mechanics Applications/Lab	AGED 2021/2022 Agricultural Metals/Lab

BS Agricultural Science: Animal Science Option

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	AGEC 2073 Principles of Agricultural Economics	3
PLSC 1003 Introduction to Plant Science	3	PLSC 2002/2001 Principles of Horticulture/Lab	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2	BIOL 1203/1201 Principles of Biology I/Lab	4
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	ANSC 2002/2001 Animal Nutrition I/Lab	3
ANSC 2013 Animal Anatomy and Physiology	3	BIOL 1213/1211 Principles of Biology II/Lab	4
PLSC 2022/2021 Elements of Forestry/Lab	3	PLSC 2012/2011 Soil Science/Lab	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
AGEC 3043 Farm Management	3	ANSC 3023 Animal Nutrition II	3
AGED 3003 Leadership and Communications	3	ANSC 3053 Animal Breeding	3
ANSC 3013 Animal Diseases and Health	3	ANSC 4003 Advanced Animal Physiology	3
BIOL 3033/3031 Genetics/Lab	4	ANSC 3042/3041 Animal Reproductive Physiology/Lab	3
		PLSC 3013 Forage Production	3
Total Semester Hours	13	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
AGEC 3003 Marketing of Agricultural Products	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
AGRI 4033 Issues in Agriculture	3	Agricultural Mechanics Elective	3
BIOL 3023/3021 Microbiology/Lab	4	Animal Science Elective	3
PLSC 3073/3071 Entomology	4	Animal Science Elective	3
Animal Science Elective	3		
Total Semester Hours	17	Total Semester Hours	12

Total hours required for major – 121

Offered in Fall	Offered in Spring
Animal Science Electives	
AGRI 4501-3 Special Problems in Animal Science	AGEC 4501-3 Special Problems in Animal Science
AGRI 4452/4551 Internship in Agriculture I & II	ANSC 4102/4101 Beef Production/Lab
ANSC 4122/4121 Swine Production/Lab (even years)	
ANSC 4132/4131 Poultry Production/Lab (odd years)	
Agricultural Mechanics Electives	
AGED 2001/2002 Agricultural Power/Lab	AGED 2021/2022 Agricultural Metals/Lab
AGED 2011/2012 Agricultural Structures/Lab	AGED 2031/2032 Agricultural Mechanics Applications/Lab

BS Agricultural Science: Plant Science Option

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Mathematics (MATH 1023, MATH 1045 or MATH 1525)	3	AGEC 2073 Principles of Agricultural Economics	3
PLSC 1003 Introduction to Plant Science	3	PLSC 2002/2001 Principles of Horticulture/Lab	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2	BIOL 1203/1201 Principles of Biology I/Lab	4
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 1023/1021 University Chemistry I/Lab	4	ANSC 2002/2001 Animal Nutrition I/Lab	3
ANSC 2013 Animal Anatomy and Physiology	3	BIOL 1213/1211 Principles of Biology II/Lab	4
PLSC 2022/2021 Elements of Forestry/Lab	3	CHEM 1123/1121 University Chemistry II/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	PLSC 2012/2011 Soil Science/Lab	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3		
Total Semester Hours	16	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
PLSC 4002/4001 Weed Science/Lab	3	PLSC 3083/3081 Plant Physiology/Lab	4
AGED 3003 Leadership and Communication	3	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
PLSC 3073/3071 Entomology/Lab	4	PLSC 3013 Forage Production	3
AGEC 3043 Farm Management	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Plant Science Elective	3		
Total Semester Hours	16	Total Semester Hours	13
Fall - Semester 7		Spring - Semester 8	
AGEC 3003 Marketing of Agricultural Products	3	AGRI 4033 Issues in Agriculture	3
PLSC 3032/3031 Greenhouse Management/Lab	3	PLSC 3043 Plant Breeding	3
BIOL 3033/3031 Genetics/Lab	4	BIOL 3023/3021 Microbiology/Lab	4
PLSC 3042/3041 Advanced Soil Science/Lab	3	Plant Science Elective	4
PLSC 4022/4021 Plant Pathology/Lab	3		
Total Semester Hours	16	Total Semester Hours	14

Total hours required for major – 120

Offered in Fall	Offered in Spring
Plant Science Electives	
BIOL 3183/3181 Botany/Lab	AGEC 3063 Agricultural Data Management and Analysis
BIOL 4013/4011 Ecology/Lab	BIOL 3303/3031 Systematic Botany/Lab (odd years)
PLSC4033 Agronomic Production	PLSC 4062/4061 Principles of Landscape Management/Lab
PLSC 4053 Turf Management	

BS Agricultural Science: Poultry Science Option

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	AGEC 2073 Principles of Agricultural Economics	3
POSC 1003/1001 Introduction to Poultry Science/Lab	4	BIOL 1203/1201 Principles of Biology I/Lab	4
GSTD 1002 Freshman Seminar	2	PLSC 1003 Introduction to Plant Science	3
Total Semester Hours	16	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
ANSC 2013 Animal Anatomy and Physiology	3	ANSC 2002/2001 Animal Nutrition I/Lab	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	PLSC 2012/2011 Soil Science/Lab	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	BIOL 1213/1211 Principles of Biology II/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	PLSC 2002/2001 Principles of Horticulture/Lab	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
AGEC 3043 Farm Management	3	AGEC 3063 Agri Data Management and Analysis	3
POSC 3013 Poultry Diseases and Health	3	ANSC 3053 Animal Breeding	3
BIOL 3033/3031 Genetics/Lab	4	AGED 3003 Leadership and Communications	3
Agricultural Mechanics Elective	3	POSC 3023 Poultry Nutrition	3
		POSC 3042/3041 Egg and Meat Technology/Lab	3
Total Semester Hours	13	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
AGEC 3003 Marketing of Agricultural Products	3	POSC 4142/4141 Adv Commercial Poultry Production	3
AGRI 4033 Issues in Agriculture	3	AGEC 4023 Agribusiness Venture and Management	3
BIOL 3023/3021 Microbiology/Lab	4	Poultry Science Elective	2
POSC 4003 Avian Anatomy and Physiology	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
POSC 4132/4131 Poultry Production/Lab	3		
Total Semester Hours	16	Total Semester Hours	11

Total hours required for major – 120

Poultry Science Electives	Agricultural Mechanics Electives
AGRI 4452/4551 Internship in Agriculture I & II	AGED 2002/2001 Agricultural Power/Lab
ANSC 4501-3 Special Problems in Animal Science	AGED 2011/2012 Agricultural Structures/Lab
	AGED 2021/2022 Agricultural Metals/Lab

BS Agricultural Science: Pre-Veterinary Option

Suggested Plan of Study

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
ANSC 1003/1001 Introduction to Animal Science/Lab	4	AGEC 2073 Principles of Agricultural Economics	3
PLSC 1003 Introduction to Plant Science	3	PLSC 2002/2001 Principles of Horticulture/Lab	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2	BIOL 1203/1201 Principles of Biology I/Lab	4
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	CHEM 1123/1121 University Chemistry II/Lab	4
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	ANSC 2002/2001 Animal Nutrition I/Lab	3
ANSC 2013 Animal Anatomy and Physiology	3	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	PLSC 2012/2011 Soil Science/Lab	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
ANSC 3013 Animal Diseases and Health	3	ANSC 3023 Animal Nutrition II	3
BIOL 3033/3031 Genetics/Lab	4	ANSC 3053 Animal Breeding	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	ANSC 4003 Advanced Animal Physiology	3
MATH 3043 Applied Probability and Statistics I	3	CHEM 3073/3071 Biochemistry I/Lab	4
SPCH 1113 Introduction to Public Speaking	3	BIOL 3023/3021 Microbiology/Lab	4
Total Semester Hours	17	Total Semester Hours	17
Fall - Semester 7		Spring - Semester 8	
AGRI 4033 Issues in Agriculture	3	ANSC 3042/3041 Animal Reproductive Physiol/Lab	3
BIOL 2403 Medical Terminology	3	Animal Science Elective	3
Animal Science Elective	3	PLSC 3013 Forage Production	3
PHYS 2003/2001 College Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab	4
AGEC 3043 Farm Management	3		
Total Semester Hours	16	Total Semester Hours	13

Total hours required for Major – 127

Offered in Fall	Offered in Spring
Animal Science Electives	
AGRI 4452/4551 Internship in Agriculture I & II	ANSC 4102/4101 Beef Production/Lab
ANSC 4122/4121 Swine Production/Lab (even years)	
ANSC 4132/4131 Poultry Production/Lab (odd years)	

BS Chemistry: Education Option

Suggested Plan of Study

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	BIOL 1203/1201 Principles of Biology I/Lab	4
CHEM 1501 Background and Strategies in Chemistry	1	CHEM 1123/1121 University Chemistry II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	TEDU 2003 Intro to Education	3
GSTD 1002 Freshman Seminar	2	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Total Semester Hours	15	Total Semester Hours	17
Fall - Semester 3		Spring - Semester 4	
BIOL 1213/1211 Principles of Biology II or College of Science and Engineering Elective	4	Social Science Choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
CHEM 2012/2011 Analytical Chemistry/Lab	3	CHEM 3103/3101 Organic Chemistry II/Lab	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4	CHEM 3073 Biochemistry I	3
CHEM 4403 Physical Chemistry: Thermodynamics	3	CHEM 3233 Intermediate Inorganic Chemistry	3
EDUC 3013 Learning Theory	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Total Semester Hours	13	SPED 4073 Introduction to Special Education	3
		Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
TEDU 4006 Residency I	6	TEDU 4016 Residency II	6
TEDU 4001 Professional Learning I	1	TEDU 4011 Professional Learning II	1
TEDU 4012 Content Pedagogy in STEM	2	TEDU 4353 Assessment-Driven math and Science Instruction	3
EDUC 4113 Strategies or EDUC 4203 Diagnostics	3	TEDU 3013 Creating Environments for Learning	3
SPED 4063 Designing Assessments for General and Special Populations	3	College of Science and Engineering Elective	2
CHEM 4051 Senior Seminar – Chemistry	1		
Total Semester Hours	16	Total Semester Hours	15

Total hours required for major – 120

BS Chemistry: Forensic Science Option

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Fall - Semester 1		Spring - Semester 2	
CHEM 1501 Background & Strategies in CHEM	1	ENGL 1123 Composition II	3
ENGL 1113 Composition I	3	CHEM 1123/1121 University Chemistry II/Lab	4
MATH 1525 Calculus I	5	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 1023/1021 University Chemistry I/Lab	4	Social Science Choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
GSTD 1002 Freshman Seminar	2	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 2012/2001 Analytical Chemistry/Lab	3	CHEM 2173 Forensic Science	3
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
CRJU 2003 Introduction to Criminal Justice	3	ENGL 3023 Technical Writing	3
SPCH 1113 Introduction to Public Speaking	3	CRJU 3183 Statistics (or equivalent)	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3073 Biochemistry I/Lab	4
CRJU 3033 Criminal Investigation	3	CHEM 3103/3101 Organic Chemistry II/Lab	4
BIOL 3033/3031 Genetics/Lab	4	CRJU 3023 Criminal Evidence & Procedures	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 4403/4401 Physical Chemistry: Thermodynamics/Lab or CHEM 4413/4411 Physical Chemistry: Quantum & Kinetics/Lab	4	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
CHEM 4073 Biochemistry II	3	CHEM 4722 Senior Research in Chemistry II	2
CHEM 4712 Senior Research in Chemistry I	2	CHEM 4173 Forensic Chemistry	3
CHEM 4051 Senior Seminar - Chemistry	1	CHEM Elective	1
Total Semester Hours	13	Total Semester Hours	13

Total hours required for major – 120

BS Chemistry: Medical Laboratory Science Option

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Fall - Semester 1		Spring - Semester 2	
CHEM 1501 Background & Strategies in CHEM	1	ENGL 1123 Composition II	3
ENGL 1113 Composition I	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 1023 College Algebra	3	CHEM 1123/1121 University Chemistry II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4		
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	17	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
Statistics or Higher-Level Mathematics	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 2012/2001 Analytical Chemistry/Lab	3	BIOL 3613/3611 Microbiology for Nursing and Allied Health/Lab	4
Total Semester Hours	12	Total Semester Hours	13
Fall - Semester 5		Spring - Semester 6	
BIOL 2063/2061 Anatomy & Physiology I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab or CHEM 3073/3071 Biochemistry I/Lab	4
CHEM 3003/3001 Organic Chemistry I/Lab	4	Biology or Chemistry Elective	4
Biology or Chemistry Elective	4	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
Biology or Chemistry Elective	1		
Total Semester Hours	13	Total Semester Hours	12

Total hours required for major – 120 (81 hours at SAU plus 39 hours in approved clinical/professional program)

Semesters 7 and 8: Clinical/Professional Program – 39 hours (including satisfactory completion of minimum of 12 months clinical training and course work at a cooperative accredited Medical Technology program.)

Students are encouraged to work with their academic advisors to ensure that they meet all of the entrance requirements of any clinical program to which they wish to apply.

BS Chemistry: Pre-Health Professional Biochemistry Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
CHEM 1501 Background and Strategies in Chemistry	1	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
GSTD 1002 Freshman Seminar	2	SPCH 1113 Introduction to Public Speaking	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 2012/2011 Analytical Chemistry/Lab	3		
Total Semester Hours	17	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
CHEM 3003/3001 Organic Chemistry I/Lab	4	ENGL 3023 Technical Writing	3
*Biology Elective	4	BIOL 3023/3021 Microbiology/Lab	4
BIOL 3033/3031 Genetics/Lab	4	CHEM 3073/3071 Biochemistry I/Lab	4
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	CHEM 3103/3101 Organic Chemistry II/Lab	4
		SCI 3101 Pre-Health Colloquium	1
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
CHEM 4073 Biochemistry II	3	*Chemistry Elective	3
CHEM 4403/4401 Physical Chemistry: Thermodynamics or CHEM 4413/4411 Physical Chemistry: Quantum and Kinetics/Lab	4	Science and Engineering Elective	3
CHEM 4051 Senior Seminar - Chemistry	1	*Biology Elective	4
*Upper-Level Chemistry Elective	4	CHEM 4722 Senior Research in Chemistry II	2
CHEM 4712 Senior Research in Chemistry I	2		
Total Semester Hours	14	Total Semester Hours	12

Total hours required for major – 120

*Pre-professional students such as pre-pharmacy and pre-medicine should consult with their advisor and review the admission requirements of their desired program.

BS Chemistry: Professional 3+2 Program

This degree program is intended for students who have been offered and have accepted admission to a professional program without finishing one of the other BS Chemistry options. It is recommended that students be placed on the BS Chemistry: Pre-Health Professional Biochemistry option first and then transferred to this degree program once they are offered and have accepted admission to a clinical/professional program.

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
MATH 1525 Calculus I	5	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 1501 Background & Strategies in CHEM	1	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
GSTD 1002 Freshman Seminar	2	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab	4
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 2012/2001 Analytical Chemistry	3		
Total Semester Hours	17	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
Upper-Level Chemistry Elective (lecture and lab)	4	Upper-Level Biology Elective (lecture and lab)	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
BIOL 3033/3031 Genetics/Lab	4	BIOL 3023/3021 Microbiology/Lab	4
SCI 3101 Pre-Health Colloquium	1		
Total Semester Hours	13	Total Semester Hours	12

Total hours for major – 120 hours (88 hours at SAU and 32 hours in accredited clinical/professional program)

Semesters 7-10: Clinical/Professional Program – 32 hours (including satisfactory completion of minimum of four semesters at an approved and accredited clinical/professional program.)

Students are encouraged to work with their academic advisors to ensure that they meet all of the entrance requirements of any clinical program to which they wish to apply.

BS Chemistry: Science Option (BS)

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
CHEM 1501 Background & Strategies in CHEM	1	MATH 1545 Calculus II	5
MATH 1525 Calculus I	5	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2	CHEM 1123/1121 University Chemistry II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4		
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
CHEM 2012/2001 Analytical Chemistry/Lab	3	PHYS 2213/2211 University Physics II/Lab	4
PHYS 2203/2201 University Physics I/Lab	4	SPCH 1113 Introduction to Public Speaking	3
BIOL 1203/1201 Principles of Biology I/Lab	4	ENGL 3023 Technical Writing	3
		Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
Total Semester Hours	14	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	CHEM 3233/3231 Intermediate Inorganic Chemistry/Lab	4
MATH 2563 Calculus III	3	CHEM 3103/3101 Organic Chemistry II/Lab	4
Free Elective	3	CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 3003/3001 Organic Chemistry I/Lab	4		
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
CHEM 4403/4401 Physical Chemistry: Thermodynamics/Lab	4	CHEM 4413/4411 Physical Chemistry: Quantum and Kinetics/Lab	4
CHEM 4051 Senior Seminar	1	CHEM 4722 Senior Research in Chemistry II	2
CHEM 4712 Senior Research in Chemistry I	2	Free Elective	3
Science and Engineering Elective	3	Science and Engineering Elective	3
Science and Engineering Elective	2	CHEM 3073/3071 Biochemistry I/Lab	4
Total Semester Hours	13	Total Semester Hours	16

Total hours required for major – 120

Chemistry Electives

CHEM 3243 Introduction to Toxicology	CHEM 4173 Forensic Chemistry
CHEM 4013 Advanced Organic Chemistry	CHEM 4791-3 Advanced Topics in Chemistry I
CHEM 4033 Advanced Inorganic Chemistry	CHEM 4891-3 Advanced Topics in Chemistry II
CHEM 4073 Biochemistry II	CHEM 4991-3 Advanced Topics in Chemistry III

Associate of Science (AS) in Chemistry

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
CHEM 1501 Background and Strategies in Chemistry	1	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University II Chemistry/Lab	4
MATH 1045 Pre-Calculus Mathematics	5	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
GSTD 1002 Freshman Seminar	2	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	CHEM 2012/2001 Analytical Chemistry /Lab	3
Science and Engineering Elective	3	Science and Engineering Elective	2
		World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
Total Semester Hours	14	Total Semester Hours	15

Total hours required for major – 60

BS Biology

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II	4
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
BIOL 3033/3031 Genetics/Lab	4	BIOL 4503/4501 Molecular Biology/Lab or Options	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
CHEM 3003/3001 Organic Chemistry I/Lab	4		
Total Semester Hours	17	Total Semester Hours	13
Fall - Semester 5		Spring - Semester 6	
Organismal Elective	4	BIOL 3023/3021 Microbiology/Lab	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
BIOL 4013/4011 Ecology/Lab	4	BIOL 3763 Evolutionary Biology	3
Free Elective	3	UL Biology Electives	3
		Free Elective	3
Total Semester Hours	15	Total Semester Hours	17
Fall - Semester 7		Spring - Semester 8	
BIOL 3073/3071 Vertebrate Physiology/Lab or option	4	BIOL 3043 Cell Biology	3
BIOL 4101 Biology Colloquium	1	UL Biology Elective	3
UL Biology Electives	6	UL Biology Electives	4
Free Electives	1	Free Electives	6
Total Semester Hours	12	Total Semester Hours	16

Total hours required for major – 120

Organismal Electives

BIOL 3073/3071 Entomology/Lab	BIOL 3393/3391 Ichthyology/Lab
BIOL 3183/3181 Botany/Lab	BIOL 3423/3421 Mammalogy/Lab
BIOL 3383/3381 Herpetology/Lab	BIOL 3523/3521 Ornithology/Lab

BS Biology: Marine Biology Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
BIOL 1051 Issues in Conservation Biology	1		
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	17	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
BIOL 3183/3181 Botany/Lab	4	BIOL 3443 Global Environmental Change	3
BIOL 3033/3031 Genetics/Lab	4	BIOL 3763 Evolutionary Biology	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	BIOL 3583 Biostatistics	3
BIOL 3503 Marine Biology	3	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
		History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
BIOL 3023/3021 Microbiology/Lab	4	BIOL 3143/3141 Comparative Vertebrate Anatomy	4
BIOL 4013/4011 Ecology/Lab	4	BIOL 3843 Oceanography	3
		Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
BIOL 3703/3701 Vertebrate Physiology/Lab	4	BIOL 4101 Biology Colloquium	1
Marine Science Electives*	4	BIOL 3393/3391 Ichthyology	4
Free Electives	7	Free Electives	8
Total Semester Hours	15	Total Semester Hours	13

Total hours required for major – 120

*At least four hours of upper-level marine electives must be taken at an affiliate institution. These electives may be taken during a summer term.

BS Biology: Pre-Health Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
*MATH 1023 College Algebra	3	*MATH 1033 Plane Trigonometry	3
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
BIOL 2063/2061 Anatomy & Physiology I/Lab or BIOL 3703/3701 Vertebrate Physiology/Lab	4	CHEM 3073/3071 Biochemistry I/Lab, CHEM 3103/3101 Organic Chemistry II/Lab, or Free Elective	4
BIOL 3033/3031 Genetics/Lab	4	BIOL 2073/2071 Anatomy & Physiology II/Lab or Elective	3-4
CHEM 3003/3001 Organic Chemistry I/Lab	4	BIOL 3043 Cell Biology	3
		SCI 3101 Pre-Health Colloquium	1
Total Semester Hours	15	Total Semester Hours	14-15
Fall - Semester 5		Spring - Semester 6	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
BIOL 4013 Ecology/Lab	4	BIOL 3023/3021 Microbiology/Lab	4
Pre-Health Elective	4	CHEM 3073/3071 Biochemistry I/Lab or Elective	4
Total Semester Hours	15		15
Fall - Semester 7		Spring - Semester 8	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	BIOL 3763 Evolutionary Biology	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	BIOL 4503/4501 Molecular Biology/Lab	4
Pre-Health Elective	4	BIOL 4101 Biology Colloquium	1
Electives	6	Pre-Health Elective	4
		Elective	2-3
Total Semester Hours	16	Total Semester Hours	14-15

Total hours required for major – 120

*Some schools require six hours of mathematics, while others may also require mathematics through Calculus I. Check individual schools' admissions requirements for details.

Pre-Health Electives

BIOL 3143/3141 Comparative Vertebrate Anatomy/Lab	BIOL 4033/4031 Developmental Biology/Lab
BIOL 3373/3371 Introduction to Neuroscience/Lab	BIOL 4043/4041 Immunology/Lab
BIOL 3411-3414 Internship in Biology	BIOL 4243 Viral Genetics
BIOL 3583 Biostatistics	BIOL 4244 Advanced Microscopy and Histology
BIOL 3703/3701 Vertebrate Physiology/Lab	BIOL 4891 Independent Research in Biology

BS Biology: Professional 3+2 Program

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
GSTD 1002 Freshman Seminar	2	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 3		Spring - Semester 4	
BIOL 3033/3031 Genetics/Lab	4	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
SCI 3101 Pre-Health Colloquium	1	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
BIOL 2403 Medical Terminology	3	BIOL 3023/3021 Microbiology/Lab	4
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab	4
MATH 1525 Calculus I	5		
Total Semester Hours	17	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
BIOL 3703/3701 Vertebrate Physiology/Lab	4	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 3073/3071 Biochemistry I/Lab	4	BIOL 3043 Cell Biology	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
Total Semester Hours	15	Total Semester Hours	13

Total hours for major – 122 (92 hours from SAU plus 30 hours from an approved professional program)

BS Biology: Wildlife and Conservation Biology Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
BIOL 1051 Issues in Conservation Biology	1	CHEM 1123/1121 University Chemistry II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	17	Total Semester Hours	17
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3
BIOL 3033/3031 Genetics/Lab	4	BIOL 3143/3141 Comparative Vertebrate Anatomy/Lab	4
BIOL 3183/3181 Botany/Lab	4	BIOL 3763 Evolutionary Biology	3
BIOL 4013/4011 Ecology/Lab	4	BIOL 3023/3021 Microbiology/Lab	4
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	BIOL 4063/4061 Wildlife Ecology and Management/Lab	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	BIOL 3083/3081 Plant Physiology/Lab	4
CHEM 3003/3001 Organic Chemistry I/Lab	4	BIOL 3583 Biostatistics	3
BIOL 3703/3701 Vertebrate Physiology/Lab	4	Wildlife Elective	4
Total Semester Hours	15		15
Fall - Semester 7		Spring - Semester 8	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	BIOL 4101 Biology Colloquium	1
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	BIOL 3443 Global Environmental Change	3
BIOL 4663 Natural Resource Policy and Admin	3	BIOL 3303/3301 Systematic Botany/Lab	4
Free Electives	6	BIOL 3443 Global Environmental Change	3
		Wildlife Elective	4
Total Semester Hours	15	Total Semester Hours	12

Total hours required for major – 120

Wildlife Electives

BIOL 3073/3071 Entomology/Lab	BIOL 3393/3391 Ichthyology/Lab
BIOL 3383/3381 Herpetology/Lab	BIOL 3523/3521 Ornithology/Lab

BS Public Health

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
GSTD 1002 Freshman Seminar	2	ENGL 1123 Composition II	3
ENGL 1113 Composition I	3	PH 2003 Foundations of Public Health	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4	SPCH 1113 Introduction to Public Speaking	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, THEA 2003, THEA 2633, or Foreign Language)	3	BIOL 2003 Nutrition and Diet	3
BIOL 2063/2061 Anatomy & Physiology I/Lab	4	BIOL 2073/2071 Anatomy & Physiology II/Lab	4
PSYC 2003 General Psychology	3	MATH 3043 Applied Probability and Statistics I or PSYC/SOC 3183 Statistics	3
PHIL 2403 Introduction to Philosophy & Ethics	3	BIOL 3613/3611 Microbiology for Nursing and Allied Health/Lab	4
HS 1403 Personal and Community Health or NURS 2003 Introduction to Professional Nursing	3		
Total Semester Hours	16	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
BIOL 2403 Medical Terminology	3	PH 3053 The Business of Health Care	3
CSCI 1053 Computer Concepts for Allied Health	3	PH 3063 Social and Behavioral Health	3
PH 3013 Issues and Trends in Healthcare	3	PH 3043 Research for Evidence-Based Practice	3
BIOL 3903 Human Genetics	3	PSYC 3223 Developmental Psychology	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, THEA 2003, THEA 2633, or Foreign Language)	3	PH 4023 Health Care and Public Health Policy	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
PH 3103 Biological Concepts for Public Health	3	PH 4003 Epidemiology	3
PH 4123 Program Planning and Evaluation	3	PH 4983 Internship in Public Health	3
SOC 3003 Cultural Diversity	3	PH 4033 Evaluation Methods in Public Health	3
Public Health Elective	3	Public Health Elective	3
Free Elective	3	Free Elective	2
Total Semester Hours	15	Total Semester Hours	14

Total hours required for major – 120 hours

Public Health Electives

CRJU 3063 Substance Abuse	PSYC/SOC 4063 Social Psychology
HS 4023 Pharmacology in Sports	PSYC 4083 Adolescent Psychology
HS 4413 Health Education in the School	PSYC 4163 Child Psychopathology
PH 4791-3 Independent Study in Public Health	REC 3613 School and Community Recreation
PHIL 3003 Death, Dying and World Religion	REC 3623 Psychology of Sports
PSYC 3123 Child Psychology	REC 3663 Leisure and Aging
PSYC/SOC 4003 Domestic Violence	SOC 3033 Sociology of Marriage and Family
PSYC 4033 Abnormal Psychology	SOC 4073 Social Gerontology

Associate of Science (AS) in Health Sciences

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Health Science Choice (BIOL 1203 Principles of Biology I, HS 1403 Personal and Community Health, NURS 2003 Introduction to Professional Nursing, or PH 2003 Foundations of Public Health)	3
MATH 1023 College Algebra	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
BIOL 1403/1401 Introduction to Biology/Lab	4	CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	4
GSTD 1002 Freshman Seminar	2	Biology or Public Health Elective	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 3043 Applied Probability and Statistics I* or PSYC/SOC 3183 Statistics	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	BIOL 3023/3021 Microbiology/Lab or BIOL 3613/3611 Microbiology for Nursing and Allied Health/Lab	4
BIOL 2063/2061 Anatomy and Physiology I/Lab	4	BIOL 2073/2071 Anatomy and Physiology II/Lab	4
Biology or Public Health Elective	3		
Total Semester Hours	16	Total Semester Hours	14

Total hours required for major – 61

*Professional schools require three hours of statistics.

Bachelor of Science in Engineering (BSEngr)

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
PHYS 2203 2201 University Physics I/Lab	4	ENGR 2143 Statics	3
ENGR 1023 Introduction to Engineering	3	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 1021 Introduction to Engineering Lab	1
		ENGR 2020 Engineering Exams	0
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
ENGR 1212 Engineering Graphics	2	CSCI 2103/2101 Computer Science I/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	MATH 3033 Differential Equations	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	ENGR 2163 Dynamics	3
MATH 2563 Calculus III	3	ENGR 2043 Properties of Materials	3
ENGR 2033 Electric Circuits I	3	CHEM 1123/1121 University Chemistry II/Lab	4
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	15	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
ENGR 3143 Manufacturing Processes	3	HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
ENGR 3003 Fluid Mechanics	3	ENGR 3163 Computer-Aided Design and Analysis	3
ENGR 3013 Thermodynamics	3	ENGR 3211 Thermal Fluid Science Lab	1
ENGR 3043 Mechanics of Materials	3	ENGR 3083 Numerical Methods in Engineering	3
ENGR 3101 Solid Mechanics Lab	1	ENGR 3023 Heat Transfer	3
ENGR 2020 Engineering Exams	0	ENGL 3023 Technical Writing	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	13	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
ENGR 4153 Heating, Ventilation, and A/C	3	ENGR 4701 Work Experience Learning	1
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	ENGR 4123 Senior Design Project II	3
ENGR 4992 Mechanical Engineering Proficiency	2	UL Engineering or Physics Elective	3
ENGR 4033 Control Systems	3	ENGR 3073 Engineering Economics	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	ENGR 4013 Machine Design	3
ENGR 4023 Senior Design Project I	3	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
Total Semester Hours	17	Total Semester Hours	13

Total hours required for major – 124

Bachelor of Science in Mechanical Engineering (BSME)

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
PHYS 2203 2201 University Physics I/Lab	4	ENGR 2143 Statics	3
ENGR 1212 Engineering Graphics	2	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 1021 Introduction to Engineering Lab	1
Total Semester Hours	16	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 1023/1021 University Chemistry I/Lab	4	CSCI 2103/2101 Computer Science I/Lab	4
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	MATH 3043 Applied Probability and Statistics I	3
MATH 2563 Calculus III	3	ENGR 2163 Dynamics	3
ENGR 2033/2031 Electrical Circuits I/Lab	4	ENGR 2043 Properties of Materials	3
ENGR 2020 Engineering Exams	0	MATH 3033 Differential Equations	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	14	Total Semester Hours	16
Fall - Semester 5		Spring - Semester 6	
ENGR 3143/3141 Manufacturing Processes/Lab	4	ENGR 4013 Machine Design	3
ENGR 3003 Fluid Mechanics	3	ENGR 3163 Computer-Aided Design and Analysis	3
ENGR 3013 Thermodynamics	3	ENGR 3211 Thermal Fluid Science Lab	1
ENGR 3043 Mechanics of Materials	3	ENGR 3083 Numerical Methods in Engineering	3
ENGR 3101 Solid Mechanics Lab	1	ENGR 3023 Heat Transfer	3
ENGR 2020 Engineering Exams	0	ENGL 3023 Technical Writing	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	14	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	ENGR 3073 Engineering Economics	3
MECH 4022 Mechanical Engineering Design Capstone I	2	MECH 4122 Mechanical Engineering Design Capstone II	2
ENGR 4053 Thermal Fluid Systems Design	3	ENGR 4701 Work Experience Learning	1
ENGR 4992 Mechanical Engineering Proficiency	2	Upper-Level Engineering or Physics Elective	3
ENGR 4033 Control Systems	3	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
Total Semester Hours	16	Total Semester Hours	12

Total hours required for major – 120

BS Engineering Science: Chemical Engineering

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGR 1023/1021 Introduction to Engineering/Lab	4	ENGR 1212 Engineering Graphics	2
PHYS 2203/2201 University Physics I/Lab	4	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 2020 Engineering Exams	0
Total Semester Hours	18	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
CHEM 1023/1021 University Chemistry I/Lab	4	CSCI 2103 Computer Science I/Lab	4
ENGR 2143 Statics	3	CHEM 1123/1121 University Chemistry II/Lab	4
MATH 2563 Calculus III	3	ENGR 2043 Properties of Materials	3
HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	CHEG 2053 Chemical Engineering Fundamentals	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	MATH 3033 Differential Equations	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
CHEM 3003/3001 Organic Chemistry I/Lab	4	ENGL 3023 Advanced Professional Writing	3
ENGR 3013 Thermodynamics	3	ENGR 3023 Heat Transfer	3
ENGR 3003 Fluid Mechanics	3	ENGR 3073 Engineering Economics	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	ENGR 3083 Numerical Methods in Engineering	3
ENGR 2020 Engineering Exams	0	ENGR 3111 Thermal Fluid Science Lab	1
		CHEG 3213 Thermodynamics II	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	13	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
CHEG 4023 Senior Design Project I	3	CHEG 4123 Senior Design Project II	3
CHEG 3063 Mass Transfer	3	CHEG 4173 Chemical Engineering Processes	3
CHEG 3352 Chemical Engineering Lab	2	ENGR 4701 Work Experience Learning I	1
CHEG 4033 Process Control	3	UL Engineering or Physics Elective (ENGR 4123 Senior Design Project II recommended)	3
CHEG 4043 Chemical Engineering Reactor Design	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	14	Total Semester Hours	13

Total hours required for major – 121

BS Engineering Science: Engineering Technology

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
PHYS 2203/2201 University Physics I/Lab or PHYS 2003/2001 College Physics I/Lab	4	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 2125 Applied Calculus	5	HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
ENGR 1021 Introduction to Engineering Lab	1	PHYS 2203/2201 University Physics II/Lab or PHYS 2103/2101 College Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 1023 Introduction to Engineering	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	4	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
AGED 2021/2022 Agricultural Metals/Lab	3	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
ENGR 1212 Engineering Graphics	2	ETEC 2023 Programmable Logic Controller or ENGR 3103 Digital Electronics or ITEC 3263 Operations Management I	3
ETEC 2003 Applied Statics	3	ITEC 2032 Industrial Safety	2
ENGR 2033 Electric Circuits I	3	ETEC 2033 Solid Modeling and Design	3
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
ITEC 3503 Computational Methods	3	ITEC 3073 Economic Analysis for Technology	3
ITEC 3803 Industrial Materials	3	ENGR 3143/3141 Manufacturing Processes/Lab	4
ETEC 3033 Strength of Materials	3	ETEC 3013 Applied Thermal Science	3
ETEC 3003 Applied Fluid Mechanics	3	ENGR 3163 Computer Aided Design & Analysis	3
ETEC 3002 Applied Mechanics Lab	2	ETEC 3012 Applied Thermal Science Lab	2
Total Semester Hours	14	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
MATH 3043 Applied Probability and Statistics I	3	ENGL 3023 Technical Writing	3
ETEC 4013 Senior Design for Technology	3	ETEC 4003 Heating, Ventilation, and A/C	3
ITEC 4123 Computer Aided Manufacturing or ITEC 4043 Advanced Manufacturing Systems	3	UL Engineering/Technology Electives	9
UL Engineering/Technology Electives	7		
Total Semester Hours	16	Total Semester Hours	15

Total hours required for major – 120

BS Engineering Science: Industrial Technology

Suggested Plan of Study

2025-2026 Catalog

Fall – Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
**Basic Course Elective	3	Physical Science II Choice CHEM 1013/1011, CHEM 1023/1021, or CHEM 1133/1131	4
Physical Science I Choice PHYS 1133/1131, PHYS 2003/2001, PHYS 2133/2131, or PHYS 2203/2201	4	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
ITEC 2023 Introduction to Industrial Technology	3	**Basic Course Elective	3
GSTD 1002 Freshman Seminar	2	**Basic Course Elective	3
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
ITEC 2032 Industrial Safety	2	HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
**Basic Course Elective	3	ITEC 2033 Solid Modeling and Design	3
**Basic Course Elective	3	**Basic Course Elective	3
**Basic Course Elective	3	**Basic Course Elective	3
Total Semester Hours	14	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
ITEC 3003 Quality Control	3	ITEC 3263 Operations Management I	3
MATH 2124 Applied Calculus	5	MATH 3043 Applied Probability and Statistics I	3
**Basic Course Elective	3	*ITEC 3503 Computational Methods	3
**Basic Course Elective	3	**Basic Course Elective	3
		**Basic Course Elective	3
Total Semester Hours	14	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
ITEC 3043 Work Analysis	3	ITEC 3012 Maintenance	2
ITEC 3803 Industrial Materials	3	ITEC 3073 Economic Analysis for Technology	3
ITEC 4043 Advanced Manufacturing Systems	3	ITEC 3363 Operations Management II	3
Work Experience or Upper-Level Technical Elective	3	ITEC 4053 Lean Manufacturing	3
ITEC 4013 Industrial Simulation	3	Work Experience or Upper-Level Technical Elective	2
		ITEC 4313 Capstone Project	3
Total Semester Hours	15	Total Semester Hours	16

Total hours required for major – 120

*Prerequisite for ITEC 3503 may be substituted with the consent of the instructor.

**Basic Course Elective options: Accounting, Agricultural Economics, Animal Science, Biology, Chemistry, Information Systems, Computer Science, Economics, Engineering, Entomology, Finance, Forestry, General Business, Geology, Industrial Technology, Mathematics, Management, Marketing, Physics, Speech, Spanish, French, Russian.

BS Engineering Science: Engineering Physics

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGR 1023 Introduction to Engineering	3	PHYS 2213/2211 University Physics II/Lab	4
PHYS 2203/2201 University Physics I/Lab	4	ENGR 1021 Introduction to Engineering Lab	1
GSTD 1002 Freshman Seminar	2	ENGR 2143 Statics	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
MATH 2563 Calculus III	3	MATH 3033 Differential Equations	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
ENGR 2033/2031 Electrical Circuits I/Lab	4	MATH 2753 Linear Algebra	3
PHYS 3053 Modern Physics	3	CSCI 2103/2101 Computer Science I/Lab	4
ENGR 1212 Engineering Graphics	2	PHYS 3033 Electromagnetism	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
ENGR 3003 Fluid Mechanics	3	ENGR 3023 Heat Transfer	3
CSCI 2113/2111 Computer Science II/Lab	4	ENGR 3073 Engineering Economics	3
ENGR 3013 Thermodynamics	3	ENGR 3211 Thermal Fluid Science Lab	1
PHYS 3113 Advanced Physics Laboratory	3	PHYS 4013 Optics	3
ENGR 3101 Solid Mechanics Lab	1	ENGR 3163 Computer Aided Design & Analysis	3
ENGR 3043 Mechanics of Materials	3	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
Total Semester Hours	17	Total Semester Hours	13
Fall - Semester 7		Spring - Semester 8	
Fine Arts/Humanities (ART 1103 or ART 2103, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3
PHYS 4043 Analytical Mechanics	3	PHYS 4053 Quantum Mechanics	3
HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	Upper-Level Electives (Engineering, Physics, or Mathematics Recommended)	6
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Fine Arts/Humanities (ART 1103 or ART 2103, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3		
Total Semester Hours	12	Total Semester Hours	12

Total hours required for major – 120

BS Computer Science

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I or MATH 2125 Applied Calculus	5	MATH 2033 Discrete Mathematics	3
CSCI 2103/2101 Computer Science I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
GSTD 1002 Freshman Seminar	2	MATH 2753 Linear Algebra	3
Total Semester Hours	17	Total Semester Hours	16
Fall – Semester 3		Spring – Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 3043 Applied Probability and Statistics I or MATH 4073 Intro to Probability & Statistics	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics II/Lab	4	Second-Tier Mathematics Choice	3
CSCI 3403 Artificial Intelligence	3	CSCI 3703 Computer Architecture	3
CSCI 3103 Data Structures and Algorithms	3		
Total Semester Hours	16	Total Semester Hours	12
Fall – Semester 5		Spring – Semester 6	
CSCI 3063 High Level Language	3	CSCI 3143 Network Security	3
CSCI 3213 Computer Networking	3	CSCI 4203 Database Design and Implementation	3
Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4	CSCI 4133 Operating Systems	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Upper-Level Computer Science/Math Elective	3
Upper-Level Computer Science/Math Elective	3	Upper-Level Computer Science/Math Elective	3
Total Semester Hours	16	Total Semester Hours	15
Fall – Semester 7		Spring – Semester 8	
CSCI 4143 Programming Languages & Compilers	3	CSCI 3233 Theory of Computation	3
ENGL 3023 Technical Writing	3	CSCI 4153 Software Engineering	3
CSCI 2001 Information Technology Seminar	1	CSCI 4932 Senior Project II	2
Upper-Level Computer Science/Math Elective	3	Upper-Level Computer Science/Math Elective	2
Upper-Level Computer Science/Math Elective	3	Free Elective	3
CSCI 4922 Senior Project I	2		
Total Semester Hours	15	Total Semester Hours	13

Total hours required for major – 120

Second-Tier Mathematics Options

MATH 1545 Calculus II	MATH 4233 Data Science
MATH 3143 Applied Probability and Statistics II	MATH 4533 Statistical Methods

BS Computer Science: Computer Gaming & Animation Design Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I or MATH 2125 Applied Calculus	5	CSCI 2133 Game Development	3
CSCI 2103/2101 Computer Science I/Lab	4	MATH 2033 Discrete Mathematics	3
GSTD 1002 Freshman Seminar	2	CSCI 2113/2111 Computer Science II/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	ART 1103 Introduction to Game Development	3
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
MATH 3043 Applied Probability and Statistics I or MATH 4073 Introduction to Probability & Statistics	3	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
ART 1043 2D Design, ART 2183 Game Design Management, or ART 2193 Introduction to 3D Modeling Tools	3	Fine Arts/Humanities (ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	CSCI 3703 Computer Architecture	3
CSCI 3103 Data Structures and Algorithms	3	Second-Tier Mathematics Choice	3
Upper-Level CSCI, MATH, or Data Science elective	3		
Total Semester Hours	16	Total Semester Hours	13
Fall - Semester 5		Spring - Semester 6	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	CSCI 3043 Game Studio Workshop	3
CSCI 3053 Funds of Game Programming I	3	CSCI 3073 Fundamentals of Game Programming II	3
CSCI 3213 Computer Networking	3	CSCI 4133 Operating Systems	3
MATH 2753 Linear Algebra	3	ENGL 3023 Technical Writing	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	CSCI 4203 Database Design and Implementation	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
CSCI 3913 Virtual Reality Workshop	3	CSCI 3233 Theory of Computation	3
CSCI 3153 Mobile Application Development	3	CSCI 3403 Artificial Intelligence	3
CSCI 4163 Computer Graphics	3	CSCI 4153 Software Engineering	3
CSCI 4143 Languages and Compilers	3	CSCI 4922 Senior Project II	2
CSCI 4922 Senior Project I	2	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Total Semester Hours	14	Total Semester Hours	14

Total hours required for major - 120

Second-Tier Mathematics Options

MATH 1545 Calculus II	MATH 4233 Data Science
MATH 3143 Applied Probability and Statistics II	MATH 4533 Statistical Methods

BS Computer Science: Cyber Security & Privacy Option

Suggested Plan of Study

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Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I or MATH 2125 Applied Calculus	5	MATH 2033 Discrete Mathematics	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
*CSCI 2103/2101 Computer Science I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
GSTD 1002 Freshman Seminar	2	MATH 2753 Linear Algebra	3
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 3043 Applied Probability and Statistics I or MATH 4073 Intro to Probability & Statistics	3	CSCI 3703 Computer Architecture	3
CSCI 3403 Artificial Intelligence	3	Second-Tier Mathematics Option	3
CSCI 3103 Data Structures and Algorithms	3		
Total Semester Hours	16	Total Semester Hours	13
Fall - Semester 5		Spring - Semester 6	
CSCI 3063 High Level Language	3	CSCI 3143 Network Security	3
CSCI 3213 Computer Networking	3	CSCI 4203 Database Design and Implementation	3
CSCI 4213 Privacy, Security, & Ethics	3	CSCI 4333 Cyber Defense	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	CSCI 4133 Operating Systems	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Upper-Level Computer Science/Math Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
CSCI 4143 Programming Languages & Compilers	3	CSCI 3233 Theory of Computation	3
ENGL 3023 Technical Writing	3	CSCI 4153 Software Engineering	3
CSCI 4223 Cyber Forensics	3	CSCI 4932 Senior Project II	2
CSCI 2001 Information Technology Seminar	1	Upper-Level Computer Science/Math Elective	3
CSCI 4922 Senior Project I	2	Upper-Level Computer Science/Math Elective	2
Upper-Level Computer Science/Math Elective	3		
Total Semester Hours	15	Total Semester Hours	13

Total hours required for major – 120

Second-Tier Mathematics Options

MATH 1545 Calculus II	MATH 4233 Data Science
MATH 3143 Applied Probability and Statistics II	MATH 4533 Statistical Methods

BS Computer Science: Data Science Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
Math choice - MATH 1525 Calculus I is recommended	5	MATH 1545 Calculus II	5
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
CSCI 2103/2101 Computer Science I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	17	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 3043 Applied Probability and Statistics I	3	CSCI 3703 Computer Architecture	3
CSCI 3103 Data Structures and Algorithms	3	Upper-Level CSCI, MATH, or Data Science elective	3
CSCI 3403 Artificial Intelligence	3	DSCI 3003 Introduction to Data Science	3
MATH 2753 Linear Algebra	3	MATH 2563 Calculus III	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 5		Spring – Semester 6	
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	CSCI 4203 Database Design and Implementation	3
CHEM 1023/1021 University Chemistry I/Lab or PHYS 2203/2201 University Physics I/Lab	4	CSCI 3233 Theory of Computation	3
CSCI 3213 Computer Networking	3	CSCI 4133 Operating Systems	3
ENGL 3023 Technical Writing	3	MATH 2033 Discrete Mathematics	3
Total Semester Hours	16	Total Semester Hours	16
Fall - Semester 7		Spring – Semester 8	
CSCI 4143 Programming Languages and Compilers	3	MATH 4533 Statistical Methods	3
CSCI 4153 Software Engineering	3	DSCI 4641 Data Science Internship	1
DSCI 4013 Data Mining & Visualization	3	DSCI 4023 Machine Learning	3
DSCI 4213 Privacy Security & Ethics	3	DSCI 4103 Big Data & Cloud Computing	3
DSCI 4922 Senior Project I	2	DSCI 4932 Senior Project II	2
Total Semester Hours	14	Total Semester Hours	12

Total hours required for major – 120

BS Mathematics

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Biological Science choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
CHEM 1023/1021 University Chemistry I/Lab or PHYS 2203/2201 University Physics I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab or PHYS 2213/2211 University Physics II/Lab	4
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	MATH 2033 Discrete Mathematics	3
CSCI 2103/2101 Computer Science I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
MATH 2753 Linear Algebra	3	MATH 2563 Calculus III	3
Total Semester Hours	17	Total Semester Hours	17
Fall - Semester 5		Spring – Semester 6	
MATH 3063 Abstract Algebra	3	MATH 3033 Differential Equations	3
Upper-Level Mathematics Elective	3	MATH 4033 Introduction to Complex Variables	3
ENGL 3023 Technical Writing	3	MATH 3043 Applied Probability and Statistics I	3
Electives	6	Upper-Level Electives	6
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring – Semester 8	
MATH 3083 Principles of Analysis	3	Upper-Level Mathematics Elective	3
MATH 4043 Numerical Analysis	3	Upper-Level Electives	1
MATH 4003 College Geometry	3	Free Electives	9
MATH 3143 Applied Probability and Statistics II	3		
Total Semester Hours	12	Total Semester Hours	13

Total hours required for major – 120

Upper-Level Math Electives

MATH 4023 Point-Set Topology	MATH 4613 Special Topics
MATH 4123 History of Mathematics	MATH 4533 Statistical Methods

BS Mathematics: Data Science Option

Suggested Plan of Study

2025-2026 Catalog

Fall - Semester 1		Spring - Semester 2	
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	Biological Science choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
MATH 3043 Applied Probability and Statistics I	3	DSCI 3003 Introduction to Data Science	3
CHEM 1023/1021 University Chemistry I/Lab or PHYS 2203/2201 University Physics I/Lab	4	MATH 3143 Applied Probability and Statistics II	3
CSCI 2103/2101 Computer Science I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
MATH 2753 Linear Algebra	3	MATH 2563 Calculus III	3
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 5		Spring – Semester 6	
CSCI 3103 Data Structures and Algorithms	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
ENGL 3023 Technical Writing	3	CSCI 4203 Database Design and Implementation	3
MATH 3063 Abstract Algebra	3	MATH 2033 Discrete Mathematics	3
MATH 3083 Principles of Analysis	3	MATH 3033 Differential Equations	3
DSCI 4213 Privacy Security & Ethics	3	DSCI 4023 Machine Learning	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring – Semester 8	
MATH 4043 Numerical Analysis	3	MATH 4533 Statistical Methods	3
MATH 4003 College Geometry	3	MATH 4033 Intro to Complex Variables	3
UL Math Elective	3	DSCI 4103 Big Data & Cloud Computing	3
DSCI 4013 Data Mining & Visualization	3	DSCI 4641 Data Science Internship	1
DSCI 4922 Senior Project I	2	DSCI 4932 Senior Project II	2
Total Semester Hours	14	Total Semester Hours	12

Total hours required for major – 120

Upper-Level Math Electives

MATH 4023 Point-Set Topology	MATH 4613 Special Topics
MATH 4123 History of Mathematics	

BS Mathematics: Mathematics Education Option

Suggested Plan of Study

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Fall - Semester 1		Spring - Semester 2	
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Social Science Choice (CRJU 2003, ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003, SOC 1013, or SOC 2003)	3	Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, PHIL 2403, THEA 2003, THEA 2633, or Foreign Language)	3	Biological Science Choice/Lab (BIOL 1043/1041 or BIOL 1203/1201)	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
TEDU 2003 Introduction to Education	3	EDUC 3013 Learning Theory	3
World Literature I/II or Philosophy (ENGL 2213, ENGL 2223, or PHIL 2403)	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	CSCI 2113/2111 Computer Science II/Lab	4
CSCI 2103/2101 Computer Science I/Lab	4	MAED 2063 Math for Teachers II	3
MATH 2753 Linear Algebra	3	MATH 2033 Discrete Mathematics	3
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 5		Spring - Semester 6	
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	SPED 4073 Introduction to Special Education	3
MATH 4123 History of Mathematics	3	EDUC 4113 Reading Diagnostics	3
EDUC 4273 Creating Environments for Learning	3	MATH 3063 Abstract Algebra	3
S ED 3113 M&M in Secondary Math and Science	3	MAED 3013 Math Connections	3
S ED 4023 Residency I	3	Upper-Level Mathematics Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
MATH 4003 College Geometry	3	EDUC 4003 Education Seminar	3
MATH 4073 Intro to Probability and Statistics or MATH 3043 Applied Probability and Statistics	3	S ED 4006 Student Teaching in Secondary School I	6
EDUC 4043 Designing Assessments for General and Special Populations	3	S ED 4103 Student Teaching in Secondary School II	3
Upper-Level Mathematics Elective	3		
MAED 4012 Content Pedagogy in STEM	2		
Total Semester Hours	14	Total Semester Hours	12

Total hours required for major – 120

Upper-Level Math Electives

MATH 3033 Differential Equations	MATH 4033 Complex Variables
MATH 3083 Principles of Analysis	MATH 4043 Numerical Analysis
MATH 4023 Point-Set Topology	MATH 4613 Special Topics

Bachelor of Science in Nursing (BSN)

Suggested Plan of Study

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Fall - Semester 1		Spring - Semester 2	
GSTD 1002 Freshman Seminar	2	ENGL 1123 Composition II	3
ENGL 1113 Composition I	3	History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3
Mathematics Choice (MATH 1023, MATH 1045 or MATH 1525)	3	PSYC 2003 General Psychology	3
History choice – must complete one World History (HIST 1003/1013) and one US History/Government (HIST 2013/2023 or PSCI 2003)	3	CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	4
Biological Science choice/Lab BIOL 1043/1041 or BIOL 1203/1201	4	MATH 1001 Math/Allied Health	1
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
Foreign Language Choice	3	NURS 2003 Introduction to Professional Nursing	3
Fine Arts/Humanities (ART 1103 or ART 2013, ENGL 2213, ENGL 2223, HUM 2003, HUM 2103, MUS 2003 or MUS 2013 or MUS 2023, THEA 2003, THEA 2633)	3	SOC 3183 Statistics or MATH 3043 Applied Probability and Statistics I	3
BIOL 2063/2061 Anatomy & Physiology I/Lab	4	BIOL 2073/2071 Anatomy & Physiology II/Lab	4
PHIL 2403 Introduction to Philosophy & Ethics	3	BIOL 3613/3601 Microbiology for Nursing and Allied Health/Lab	4
PSYC 3223 Developmental Psychology	3		
Total Semester Hours	16	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
NURS 3093 Techniques of Health Assessment	3	NURS 3403 Research for Evidence Based Practice	3
NURS 3090 Techniques of Health Assessment Lab	0	NURS 3412 Pharmacology II	2
NURS 3101 Introduction to Pharmacology	1	NURS 3083 Foundations of Mental Health Nursing	3
NURS 3206 Nursing Care I – Foundations	6	NURS 3307 Nursing Care II – Acute Care	7
NURS 3200 Foundations Clinical	0	NURS 3300 Acute Care Clinical	0
NURS 3103 Gerontological Nursing	3	NURS 3020 Nursing Exams II	0
NURS 3303 Pathophysiology for Nurses	3		
NURS 3010 Nursing Exams I	0		
Total Semester Hours	16	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
NURS 4214 Nursing Care III: Pediatrics	4	NURS 4206 Leadership and Management in Practice	6
NURS 4210 Pediatric Clinical	0	NURS 4200 Leadership and Management Clinical	0
NURS 4225 Nursing Care III: Community Health	5	NURS 4307 Nursing Care IV – Complex Care	7
NURS 4220 Community Health Clinical	0	NURS 4300 Complex Care Clinical	0
NURS 4235 Nursing Care III: Maternal Newborn	5	NURS 4122 Synthesis of Nursing Concepts	2
NURS 4230 Maternal Newborn Clinical	0	NURS 4040 Nursing Exams IV	0
NURS 4121 Pharmacology III	1		
NURS 4030 Nursing Exams III	0		
Total Semester Hours	15	Total Semester Hours	15

Total hours required for major – 120 hours