College of Science
Bachelor of Science in Systems Biology
Major in Systems Biology
For students graduating in calendar year 2018

I. Curriculum for Liberal Education (38 credit hours)

All courses used for the Curriculum for Liberal Education must be on the University's approved list.

Area 1 - Writing and Discourse (6 credit hours)

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Area 2 - Ideas, Cultural Traditions, and Values (6 credit hours)

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Area 3 - Society and Human Behavior (6 credit hours)

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Area 4 - Scientific Reasoning and Discovery (8 credit hours)

BIOL 1105 Principles of Biology*§	3__	BIOL 1106 Principles of Biology*§	3__
BIOL 1115 Principles of Biology Lab*§	1__	BIOL 1116 Principles of Biology Lab*§	1__

Area 5 - Quantitative and Symbolic Reasoning (6 credit hours)

MATH 1025 Elementary Calculus*§	3__	MATH 1026 Elementary Calculus*§	3__

Area 6 - Creativity and Aesthetic Experience (3 credit hours)

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Area 7 - Critical Issues in a Global Context (3 credit hours)

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II. Systems Biology Required Core (34 credit hours)

SYSB 2025 Intro to Systems Biology*#	3__	SYSB 2026 Intro to Systems Biology*#	3__
SYSB 3035 Syst Biol Genes Proteins*#	4__	SYSB 3036 Syst Biol Genes Proteins*#	4__
SYSB 3115 Network Dyn & Cell Physiol*#	4__	SYSB 3116 Network Dyn & Cell Physiol*#	4__
SYSB 4065 Res Exp Syst Biol*#	4__	SYSB 4066 Res Exp Syst Biol*#	4__
SYSB 4135 Professionalism in Syst Biol*#	2__	SYSB 4136 Professionalism in Syst Biol*#	2__

III. Computer Science Requirement (3 credit hours) Choose from:

CS 1114 Intro to Software Design*	3__	CS 1124 Intro to Media Computation*	3__

IV. Statistics Requirement (3 credit hours) Choose from:

STAT 2004 Introductory Statistics*#	3__	STAT 2524 Data Science*#	3__
STAT 3005 Statistical Methods*#	3__	STAT 3615 Biological Statistics*#	3__
CMDA 3654 Intro Data Analytics & Visual*#	3__		

V. Additional Mathematics and Science (21 credit hours)

MATH 1114 Elementary Linear Algebra*§	2__	CHEM 2514 Survey of Organic Chemistry*#§	3__
CHEM 1035 General Chemistry*§	3__	CHEM 1036 General Chemistry*#§	3__
CHEM 1045 General Chemistry Lab*§	1__	CHEM 1046 General Chemistry Lab*#§	1__
PHYS 2205 General Physics*#§	3__	PHYS 2206 General Physics*#§	3__
PHYS 2215 General Physics Lab*#§	1__	PHYS 2216 General Physics Lab*#§	1__