

BIOLOGICAL SYSTEMS MODELING

PKG 6100	Advanced Computer Tools for Packaging	3
SWS 6813C	Modeling Land Biogeochemistry	3

About this Program

College: Herbert Wertheim College of Engineering

Credits: 12

Subplan Code: ENG_GCT23

SLO Dashboard (<https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes>)

Certificates must comply with the Graduate Certificate Policy

Required Courses

Required Courses

Code	Title	Credits
ABE 5643C	Biological Systems Modeling	3
ABE 6649C	Advanced Biological Systems Modeling	3
Electives		6
Total Credits		12

Electives

Approved Electives

Code	Title	Credits
ABE 5663	Advanced Applied Microbial Biotechnology	3
ABE 6035	Advanced Remote Sensing: Science and Sensors	3
ABE 6254	Simulation of Agricultural Watershed Systems	3
ABE 6265	Vadose Zone Modeling	3
ABE 6645C	Computer Simulation of Crop Growth and Management Responses	3
ABE 6644	Agricultural Decision Systems	3
ABE 6933	Special Topics in Agricultural and Biological Engineering (Data Diagnostics)	1-4
ABE 6933	Special Topics in Agricultural and Biological Engineering (Modeling Coupled Natural-Human Systems)	1-4
ABE 6933	Special Topics in Agricultural and Biological Engineering (Statistical Machine Learning)	1-4
ABE 6933	Special Topics in Agricultural and Biological Engineering (Landscape Modeling in Biological Systems)	1-4
ABE 6933	Special Topics in Agricultural and Biological Engineering (Agent Based Modeling in Biological Systems)	1-4
ABE 6933	Special Topics in Agricultural and Biological Engineering (Decision and Risk Analysis in Complex Biological Systems)	1-4
ANS 6637	Quantitative Microbial Risk Assessment of Pathogens in Food Systems	3
FNR 6565	Simulation Analysis of Forest Ecosystems	3
MAP 5489	Modeling in Mathematical Biology	3