

BIOSYSTEMS ENGINEERING, PHD

regulations for minimal GPA, language proficiency and other general requirements.

Requirements for Students Matriculating in or before Academic Year

2020-2021. Learn more about Graduate College Academic Regulation 7.0 (<http://catalog.okstate.edu/graduate-college/#70>).

Total Hours: 60 Hours

Code	Title	Hours
Required Courses		
BAE 5501	Seminar	1
BAE 6101	Teaching Practicum in Biosystems Engineering	1
Advanced Math (if the student didn't take any advanced math in the Master's program)		3
Hours Subtotal		5
Specialization and Dissertation		
Combination of Dissertation and Specialization to total 55 hours.		55
<i>Core Courses (By Specialty Area)</i>		
Machine Systems		
BAE 5413	Advanced Instrumentation and Control Systems for Biological Applications	
Environment and Natural Resources		
BAE 6313	Stochastic Methods in Hydrology ¹	
BAE 6333	Fluvial Hydraulics ²	
BAE 6343	Ground Water Contaminant Transport ³	
BAE 6520	Problems in Soil and Water Engineering ⁴	
Bioprocessing and Biotechnology		
BAE 5213	Renewable Energy Engineering	
BAE 5283	Advanced Bioprocess Engineering	
BAE 5413	Advanced Instrumentation and Control Systems for Biological Applications	
CHE 5123	Advanced Chemical Reaction Engineering	
CHE 5373	Process Simulation	
CHE 5743	Chemical Engineering Process Modeling	
STAT 5303	Experimental Designs	
<i>Research and Additional Requirements</i>		
BAE 6000	Doctoral Research and Dissertation	
Hours Subtotal		55
Total Hours		60

¹ Prerequisites: BAE 4313 or CIVEN 5843 and STAT 4053.

² Prerequisites: ENGSC 3233 or equivalent.

³ Prerequisites: AGRON 5583 or CIVEN 5913.

⁴ Prerequisites: CHEM 1515, BAE 4313 or equivalent.

Graduate College Doctor of Philosophy (PhD) Requirements

Learn more about Graduate College 2020-2021 Doctor of Philosophy (PhD) Degree Program Requirements (<http://catalog.okstate.edu/graduate-college/>). Check the General Graduate College academic