

# Bioenergy

Course Number	# Credits	Title	Term Completed & Grade <small>(for advisor's use)</small>
<b>Substituted Courses</b>			
_____ BRR 350.		Introduction to Regional Bioenergy (2) for BRR 100 and BRR 409	_____
_____ BRR 450.		Interdisciplinary Research: Bioenergy Focus (2) for BRR 200	_____
<b>Required</b>			
<b>Choose one course from this list (3 credits)</b>			
_____ CSS 330	3	World Food Crops	_____
_____ or MB 302	3	General Microbiology	_____
_____ or FOR 111	3	Introduction to Forestry	_____
<b>Upper-division laboratory: choose one course from this list (2-3 credits)</b>			
_____ BB 493	3	Biochemistry Laboratory	_____
_____ or BB 494	3	Biochemistry Laboratory	_____
_____ or BOT 332	3	Laboratory Techniques in Plant Biology	_____
_____ or MB 303	2	General Microbiology Laboratory	_____
<b>Engineering: Choose one course from the list, or another appropriate upper-division class in the area of process or ecological engineering, genomics/bioinformatics, or genetic engineering, approved by research mentor (3-4 credits)</b>			
_____ BEE 102	3	Ecological Engineering II	_____
_____ or BEE 320	3	Biosystems Analysis and Modeling	_____
_____ or BOT 475	4	Comparative Genomics	_____
<b>Specialization and Breadth:</b>			
_____ WSE 473	3	Bioenergy and Environmental Impact	_____
<b>Choose additional credits from above and below, or other appropriate upper-division classes approved by research mentor, for a total of 29 option credits:</b>			
_____ AREC 300	3	APPLIED ECONOMIC ANALYSIS	_____
_____ AREC 351	3	NATURAL RESOURCE ECONOMICS AND POLICY	_____
_____ AREC/ECON 352	3	ENVIRONMENTAL ECONOMICS AND POLICY	_____
_____ BEE 221	3	FUNDAMENTALS OF ECOLOGICAL ENGINEERING	_____
Note: Students choosing BEE 221 may substitute it for BEE102.			
_____ BEE 499	3	BIOFUEL FEEDSTOCKS AND PRODUCTION	_____
_____ BEE 499/599	3	BIOENERGY SYSTEMS (will be BEE 475/575)	_____
_____ BI 314	4	CELL AND MOLECULAR BIOLOGY	_____
_____ BI 435	3	GENES AND CHEMICALS IN AGRICULTURE:	_____
_____ BIOE 485	3	METABOLIC ENGINEERING	_____
_____ ECON 201	4	INTRODUCTION TO MICROECONOMICS	_____
_____ ENGR 350	3	SUSTAINABLE ENGINEERING	_____
_____ ENGR 415	3	NEW PRODUCT DEVELOPMENT	_____
_____ FOR 330	4	FOREST RESOURCE ECONOMICS I	_____
_____ FOR 331	4	FOREST RESOURCE ECONOMICS II	_____
_____ FS 432	2	PLANNING AGROFORESTRY PROJECTS	_____
_____ MB 310	3	BACTERIAL MOLECULAR GENETICS	_____
_____ MB 312	3	BACTERIAL PHYSIOLOGY AND METABOLISM	_____
_____ MB 456	3	MICROBIAL GENETICS AND BIOTECHNOLOGY	_____
_____ MB/FST 479	3	FERMENTATION MICROBIOLOGY	_____
_____ MTH 254	4	VECTOR CALCULUS I	_____
_____ MTH 256	4	APPLIED DIFFERENTIAL EQUATIONS	_____
_____ PHAR 536	3	PRODUCT DEVELOPMENT	_____
_____ PHAR 537	3	BIOORGANIC CHEMISTRY	_____
_____ PHAR 540	3	MEDICINAL NATURAL PRODUCTS CHEMISTRY	_____
_____ WR 201	3	WRITING FOR MEDIA	_____
_____ WR 214	3	WRITING FOR BUSINESS	_____
Note: Students choosing WR 201 or WR 214 may substitute it for COMM 111.			
_____ WSE 210	4	WOOD TECHNOLOGY AND UTILIZATION	_____
_____ WSE 535	3	POLYMER SYNTHESIS AND STRUCTURE	_____

\_\_\_\_\_  
Mentor's Signature

\_\_\_\_\_  
Date