

# Bioengineering Coursework OSU

OSU COURSE #	Generic Description
<b>100/200 SERIES CLASSES REQUIRED FOR PRO SCHOOL</b>	
WR 121	English Composition
COM 111	Public Speaking
CHE 102	Introductory Chemical Engineering Computation
PH 211	Physics I
PH 212	Physics II
PH 213	Physics II
CH 221	General Chemistry
MTH 251	Differential Calculus
MTH 252	Integral Calculus
MTH 306	Matrix and Power Series
MTH 254	Vector Calculus, I
MTH 256	Applied Differential Equations
ENGR 201	Electrical Fundamentals I
ENGR 211	Statics

<b>ADDITIONAL 200 SERIES CLASSES REQUIRED FOR MECOP ENTRANCE</b>	
CH 222	General Chemistry
CH 223	General Chemistry
BIOE 211/CHE 211	Material Balances and Stoichiometry
BIOE 212/ CHE 212	Energy Balances
BIOE 213/ CHE 213	Process Analysis
CHE 331	Organic Chemistry
CHE 332	Organic Chemistry

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300/400 SERIES CLASSES REQUIRED FOR FIRST YEAR MECOP INTERSHIP	
BB 450	Biochemistry I
BB 451	Biochemistry II
BIOE 341	Physiology for Engineers
CHE 311	Thermodynamics
CHE 331	Transport Phenomena I
CHE 332	Transport Phenomena II
ENGR 390	Engineering Economics
WR 327	Technical Writing
ENGR 407	MECOP Engineering Seminar

300/400 SERIES CLASSES REQUIRED FOR SECOND MECOP INTERNSHIP	
BIOE 457	Bioreactors
BIOE 462	Bioseparations
BIOE 470	Regulation of Drugs and Med. Devices
CHE 333	Transport Phenomena III
ENGR 407	MECOP Engineering Seminar
BB493	Biochemistry Lab I
BB 494	Biochemistry Lab II
BIOE 414	BIOE Lab
BIOE 415	BIOE Lab
BIOE 420	Social Ethics in Engineering
BIOE 490	Bioengineering Design