

MILLIKIN UNIVERSITY
BS Chemistry: Chemical Engineering (3:2 WashU) - 8 Semester Plan

Semester #1	Term: _____	Hours	Spg/Fall/Evry	Semester #2	Term: _____	Hours	Spg/Fall/Evry
IN 140: University Seminar		3		CH 122: General Chemistry II		3	
IN 180: University Writing		3		CH 152: General Chemistry Laboratory II		1	
CH 121: General Chemistry I		3		BI 205: Cell Biology with lab		4	
CH 151: General Chemistry Laboratory I		1		MA 240: Calculus II		4	
BI 105/155: Ecology & Evolution with lab		4		MA 135: Computer Science		3	
MA 140: Calculus I		4		CO 200: Public Speaking		3	
Semester Total		18		Semester Total		18	
Cumulative Total		18		Cumulative Total		36	
Semester #3	Term: _____	Hours	Spg/Fall/Evry	Semester #4	Term: _____	Hours	Spg/Fall/Evry
CH 301: Organic Chemistry I		3		CH 302: Organic Chemistry II		3	
CH 251: Organic Chemistry Laboratory I		1		CH 252: Organic Chemistry Laboratory II		1	
PY 151/171: University Physics I with lab		4		CH 306: Descriptive Inorganic Chemistry		3	
MA 340: Calculus III		3		CH 256: Inorganic Chemistry Laboratory		1	
IN 250: U.S. Cultural Studies (Course must also satisfy Historical Studies)		3		MA 303: Linear Algebra		3	
International Cultures Elective		3		PY 152/172: University Physics II with lab		4	
				IN 280: Writing in the Disciplines		3	
Semester Total		17		Semester Total		18	
Cumulative Total		53		Cumulative Total		71	
Semester #5	Term: _____	Hours	Spg/Fall/Evry	Semester #6	Term: _____	Hours	Spg/Fall/Evry
CH 232: Analytical Chemistry		3		CH 391: Undergraduate Research		1	
CH 253: Analytical Chemistry Laboratory		1		CH 420: Instrumental Analysis		3	
CH 254: Introduction to Research		3		CH 352: Instrumental Analysis Laboratory		1	
CH 303: Physical Chemistry I (must complete MA 240 prior)		3		CH 482: Seminar		1	
CH 351: Physical Chemistry I Lab		1		MA 305: Differential Equations		3	
CH 331: Biochemistry		3		IN 251: US Structural Studies		3	
CH 391: Undergraduate Research		1		IN 350: Global Studies		3	
Creative Arts		3		Literature		3	
Semester Total		18		Semester Total		18	
Cumulative Total		89		Cumulative Total		107	
Semester #7	Term: _____	Hours	Spg/Fall/Evry	Semester #8	Term: _____	Hours	Spg/Fall/Evry
FIRST YEAR DUAL DEGREE - WASH U				FIRST YEAR DUAL DEGREE - WASH U			
EECE 201: Engineering Analysis		3		EECE 210: Environmental Engineering		3	
EECE 203: Thermodynamics I in EECE		3		EECE 202: Modeling and Computing		3	
ESE 318: Engineering Mathematics A		3		EECE 204: Thermodynamics II in EECE		3	
ESE 319: Engineering Mathematics B		3		EECE 301: Transport Phenomena I		3	
ESE 326: Probability and Statistics		3		EECE 304: Mass Transfer Operations		3	
EECE 311 or EECE 313 Elective		3		ENGR 310: Technical Writing		3	
SECOND YEAR DUAL DEGREE - WASH U				SECOND YEAR DUAL DEGREE - WASH U			
EECE 302: Transport Phenomena II		3		EECE 303 Transport Phenomena III		3	
EECE 305: Materials Science		3		EECE 402: Engineering Capstone		3	
EECE 401: Chemical Process Dynamics & Control		3		EN 4501, 4502, 4503 Engineering Professional Practice		3	
EECE 403: Chemical Reaction Engineering		3		EECE Electives		9	
EECE 405: Unit Operations Laboratory		3		MK 310: Personal Selling or IS 240: Organizational Information Systems			
EECE Elective		3		BI 230: Principles of Microbiology			
Semester Total		36		Semester Total		36	
Cumulative Total		143		Cumulative Total		179	

NOTES:

- The schedule above provides a template. Schedules will vary by student. Summer courses may be taken at Millikin or another institution (course approved through Registrar)
- Undergraduate graduation hour requirements: 124 credits
- To be considered a full time student you must enroll in a minimum of 12 credit hours per semester.
- If taking Advanced Placement courses in high school or considering dual enrollment in high school/community college courses, please make sure you speak with a faculty advisor or Registrar's Office at Millikin prior to your selection/enrollment.