

Sample Curriculum Plan: Environmental Science: Environmental Molecular Science- AU22 & Beyond

		Autumn		Spring	
		Course	Prerequisite	Course	Prerequisite
First Year		ENR 1100 (1) AU/SP		ENR 2300 (3) AU/SP	
		ENR 2100 (3) AU/SP/SU		CHEM 1220 (5) AU/SP/SU	CHEM 1210
		CHEM 1210 (5) AU/SP/SU	C- or better in MATH 1130, 1131, 1148, 1150 or above, or Math placement L or M	GE Foundation (3) (AU/SP)	
		MATH 1151 (5) AU/SP/SU or MATH 1156 (5) AU	dependent on math placement	GE Foundation (3) (AU/SP)	
		GedEd 1201 (1) AU/SP			
Second Year		BIOLOGY 1113 (4) AU/SP/SU	CHEM 1210; MATH 1130, 1148, 1150 or higher	ENR 3700 (3) AU/SP	
		CHEM 2310 (4) AU/SP	CHEM 1220, or 1250	ENR 3000 (3) AU/SP	
		ENR 3280 (2) AU/SP		ENR 3001 (1) AU/SP	prereq or concur: ENR 3000
		ENR 3300 (3) AU/SP/SU	ENR 2100	BIOLOGY 1114 (4) AU/SP/SU	CHEM 1210; MATH 1130, 1148, 1150 or higher
		GE Foundation (3) AU/SP		ENR 2000 (3) AU/SP	
				ENR 2367 (3) AU/SP	ENGLISH 1110
Third Year		GE Citizenship for a Diverse and Just World (4-6 hrs; 1 or 2 courses)		ENR 3200 AU/SP (Overlap w/ GE Sustainability Theme**) (3)	ENR 2100 and 2300
		Specialization Course (3-4)	*	EEOB 3410 (4) AU/SP/SU	BIOLOGY 1114
		PHYSICS 1200 (5) AU/SP/SU	C- or better in MATH 1148 or Math placement M	GE Foundation (3)	
		ENR 3400 (3) AU or ENR 3500 (3) AU/SP	ENR 2300 or PSYCH 1100; ENR 2300 or RURLSOC 1500 or SOCIOL 1101	GE Theme of Choice (Recommend Overlap with Sustainability Theme**) (3)	
				EARTHSC 1121 & EARTHSC 1200 (4) AU/SP/SU	MATH 1075 or above
Fourth Year		Specialization Course (3-4)	*	Specialization Course (3)	*
		Specialization Course (3-4)	*	Specialization Course (3-4)	*
		Specialization Course (3-4)	*	GenEd 4001 (1)	
		ENR 4900 (3) AU/SP	To be taken in your final year	Specialization Course (3-4)	*

*see other side

**if considering another theme, please meet with an academic advisor

PLEASE NOTE:

Course offering dates, GE offerings, and prerequisites may have changed. For the most up-to-date information, check the University's online course search and course catalog through BuckeyeLink.

For a **personalized** report on degree progress, you can run a degree audit. You may access your degree audit through BuckeyeLink.

*Environmental Molecular Sciences Specialization Course Options-

BIOLOGICAL SCIENCES REQUIRED: choose 2

Course	Credit Hrs	Offered	Prerequisites
MICRBIO 4000	4	AU/SP	3 credit hrs. in Biology
MICRBIO 4100	5	AU/SP	Biology 1114; prereq or concur: Chem 2510
MICRBIO 5155	3	AU	MICRBIOL 4000 or 4100
MICRBIO 5169	3	AU	6 credit hrs. in Biology
MICRBIO 5161H	3	TBD	Honors standing; MICRBIOL 4130 or MOLGEN 4500, & BIOCHEM 4511
MOLGEN 5630	3	AU	MOLGEN 3300, 4500, 4606, or Biology 1114
PLNTPTH 3001	3	AU	Biology 1101, 1113, 1115H, or ENTMLGY 1101
PLNTPTH 5010	2	SP	PLNTPTH 3001 & 3002, or 6001
PLNTPTH 5040 & 5041	4	AU	a course in biol. Sciences; (5041 concur with 5040)

Additional courses
may be used with
faculty mentor

ENVIRONMENTAL SCIENCE: choose 2

Course	Credit Hrs	Offered	Prerequisites
ENR 5262	3	AU	One semester of chemistry or grad standing
ENR 5263	3	SP	ENR 3000
ENR 5273	3	SP	2 semesters of chemistry
ENR 5279	3	AU	
ENR 5271	3	AU	ENR 3000 or grad standing or permission of instructor

GEOLOGICAL SCIENCES: choose 2

Course	Credit Hrs	Offered	Prerequisites
EARTHSC 4502	4	SP	EARTHSC 1100 or 1200 or 1121 prior to AU21, and 1122 or 2122
EARTHSC 5203	3	SP	EARTHSC 2245 or GE Data Analysis course or equivalent; Soph. standing or permission of instructor
EARTHSC 5206	3	AU	Jr. standing or above, and enrollment in any STEM major; or permission of instructor
EARTHSC 5621	3	AU	Chem 1220 or above
EARTHSC 5628	3	Unknown	EarthSc 5621
EARTHSC 5651	4	AU	EarthSc 1121, Math 1152 or above
EARTHSC 5655	3	SP	MATH 1152 or above, and Physics 1250 or above
EARTHSC 5718	3	AU- Even Yrs.	CHEM 1220 or above; and MATH 1151 or above
EARTHSC 5680	3	AU	Math 1152; Physics 1251 or above

MOLECULAR BIOLOGY: choose 2

Course	Credit Hrs	Offered	Prerequisites
BIOCHEM 4511	4	AU/SP	Chem 1220 or 1250, and 2510 or 2310, and 1 semester of biological sciences; or permission of instructor
BIOCHEM 5613	3	SP	Chem 2510; prereq or concur: Chem 2520, 2620, or 2920H and one semester of biological sciences
MOLGEN 4500.01/.02	3	AU/SP/SU	Biology 1101, 1113, 1113H, and 3 addl. semester hrs. in Biological Sciences
BIOCHEM 5614	3	AU	A C- or above BIOCHEM 5613
MICROBIO 4130	3	SP	MICRBIO 4100 or MOLGEN 4500 or 4606
MICROBIO 4140	3	AU/SP	prereq or concur: MICRBIO 4130
MOLGEN 4606	4	AU/SP	Biology 1113, 1114, or Chem 1210 or equiv. or permissio of instructor
MOLGEN 5607/MOLGEN 5607E	3	AU	MOLGEN 4500 or 4606/ Honors standing; MOLGEN 4500 or 4606
MOLGEN 5623	2	SP	MOLGEN 4500, 4606, 5607, or 5608