

Environmental and Sustainability Engineering Study Plan

	Course Code	Course Title	Course Type	Pre-R	Co-R	Credit Hours	Contact Hours
Semester 1	ENL101	English for Academic Studies	UM	IEP099 or Equivalent	DPS095	3	3
	GEN150	Professionalism and Ethics	UM			3	3
	MAT101	Calculus I	UM	IMP099 or Equivalent		3	3
	PHY101	Physics I	UM		MAT101	3	3
	CHM101	Chemistry I	CM	IMP099 or Equivalent		3	3
	PHY105	Physics I Lab	CM		PHY101	1	3
	CHM105	Chemistry I Lab	CM		CHM101	1	3
<i>Total</i>						17	21

Semester 2	ENL102	English Composition	UM	ENL101 DPS095		3	3
	INF120	Computers and Information Systems	UM	DPS095		3	3
	MAT102	Calculus II	CM	MAT101		3	3
	PHY102	Physics II	CM	PHY101 MAT101		3	3
	PHY107	Physics II Lab	CM	PHY105	PHY102	1	3
	MAT202	Linear Algebra	CM	MAT101		3	3
<i>Total</i>						16	18

Semester 3	HST101	Islamic Culture and Values	UM			3	3
	MAT201	Calculus III	CM	MAT102		3	3
	MAT240	Differential Equations	CM	MAT102		3	3
	ENG205	Electrical and Electronic Circuits	CM	MAT102 PHY102		3	3
	ENG209	Statics and Strength of Materials	CM	PHY102 CHM101		3	3
	BIO101	Biology	PM	IMP099 or Equivalent		3	3
<i>Total</i>						18	18

	Course Code	Course Title	Course Type	Pre-R	Co-R	Credit Hours	Contact Hours
Semester 4	ENL201	Writing and Research	UM	ENL102		3	3
	XXXX	Global Citizen (Elective)	UM			3	3
	ENG207	Programming	CM	MAT202		3	3
	ENG206	Electrical and Electronic Circuits Lab	CM	ENG205 PHY107		1	3
	ENG208	Introduction to Energy and Sustainability	CM	PHY102 CHM105		3	3
	EES301	Environmental Chemistry	PM	CHM101 CHM105		3	3
Total						16	18

Semester 5	XXXX	Arts and Humanities Elective Group I	UM			3	3
	XXXX	Innovation and Creativity (Elective)	UM			3	3
	ENG304	Engineering Probability & Statistics	CM	MAT102		3	3
	ENG308	Numerical Methods	CM	MAT202 MAT240		3	3
	ESE301	Thermodynamics	PM	MAT240 PHY102		3	3
	EES302	Environmental Management Systems	PM	ENG208		3	3
Total						18	18

Semester 6	XXXX	Arts and Humanities Elective Group II	UM			3	3
	ENG309	Engineering Project Management and Economics	CM	ENG207 ENG208		3	3
	EES303	Sustainability Fundamentals and Development Strategy	PM	ENG208 BIO101		3	3
	EES306	Air and Water Pollution Control and Waste-Water Treatment	PM	BIO101 EES301		3	3
	ESE302	Thermal-fluid Systems	PM	ESE301 ENG308		3	3
	EES307	Soil, Solid, and Hazardous Waste Control	PM	ENG209 EES301		3	3
Total						18	18

	Course Code	Course Title	Course Type	Pre-R	Co-R	Credit Hours	Contact Hours
Semester 7	EES490	Capstone Design 1	PM	Pass 96 CH		3	3
	EES304	Water Supply and Sewerage Engineering	PM	ESE302		3	3
	EES305	Water Supply and Sewerage Engineering Lab	PM		EES304	1	3
	EES308	Waste Management and Conversion Technology	PM	ENG208 EES301		3	3
	EES401	Environmental Impact Assessment and Practices	PM	EES302 ENG304		3	3
	ESE305	Thermal Systems Lab	PM	ESE302		1	3
<i>Total</i>						14	18

Semester 8	EES491	Capstone Design 2	PM	EES490		3	3
	EES402	Sustainable Buildings Design	PM	ENG208 EES303		3	3
	XXXX	Program Elective	PE	Prerequisite Program Elective		3	3
	XXXX	Program Elective	PE	Prerequisite Program Elective		3	3
	XXXX	Program Elective	PE	Prerequisite Program Elective		3	3
<i>Total</i>						15	15

Note that the University Mandatory (UM), College Mandatory (CM), Program Mandatory (PM), and Program Elective (PE) courses