

Architectural Engineering Graduate Program

Building Energy - Sample Plan of Study

Update 3/5/2013

Use	Course	Theme	Offered	Term	Year	Title	Credits
1	AE-550	Common	F	1	1	Comfort Anlys & Indoor Air Quality	3
1	MEM-591	Common	F	1	1	Applied Engr Analy Methods I	3
1	MEM-611	BldgEnergy	F	1	1	Conduction Heat Transfer	3
1 Total							9
1	AE-510	Common	W	2	1	Intelligent Buildings	3
1	MEM-592	Common	W	2	1	Applied Engr Analy Methods II	3
1	MEM-612	BldgEnergy	W	2	1	Convection Heat Transfer	3
2 Total							9
1	AE-551	Common	S	3	1	Building Energy Systems I	3
1	Elect-S1	Elective	S	3	1	Elective	3
1	Elect-S2	Elective	W	3	1	Elective	3
3 Total							9
1	AE-544	Common	F	1	2	Building Envelope	3
1	CHE-513	BldgEnergy	F	1	2	Chemical Engineering Thermodynamics	3
1	MEM-621	Shared - Cross Cutting	F	1	2	Foundations of Fluid Mechanics	3
1 Total							9
1	CHE-525	Shared	W	2	2	Transport Phenomena I	3
1	ENVE-727	Elective - Cross Cutting	W	2	2	Risk Assessment	3
1	AE-552	BldgEnergy	W	2	2	Building Energy System II	3
2 Total							9
Grand Total							45

Undergraduate Course Prerequisites for students without an Engineering Degree

The following courses, or their approved equivalents from other departments, will meet these requirements

- * Fundamental Fluids – CivE-320
- * Heat Transfer – MEM-345
- * Thermodynamics – ENGR-210

Architectural Engineering Graduate Program

IAQ -Sample Plan of Study

Update 3/5/2013

Course	Theme	Offered	Term	Year	Title	Credits
AE-544	Common	F	1	1	Building Envelope	3
AE-550	Common	F	1	1	Comfort Anlys & Indoor Air Quality	3
MEM-591	Common	F	1	1	Applied Engr Analy Methods I	3
1 Total						9
AE-510	Common	W	2	1	Intelligent Buildings	3
AE-551	Common	S	3	1	Building Energy Systems I	3
MEM-592	Common	W	2	1	Applied Engr Analy Methods II	3
2 Total						9
AE-790	IAQ	S	3	1	Indoor Modeling and Field Measurements	3
Elect-S1	Elective	S	3	1	Elective	3
Elect-S2	Elective	W	2	1	Elective	3
3 Total						9
Elect-F1	Elective	F	1	2	Elective	3
ENVS-501	IAQ	F,S	3	2	Environmental Chemistry	3
MEM-621	Shared - Cross Cutting	F	1	2	Foundations of Fluid Mechanics	3
1 Total						9
CHE-525	Shared	W	2	2	Transport Phenomena	3
ENVE-560	IAQ	W	2	2	Air Pollution and Air Pollution Control	3
ENVE-660	IAQ	W	2	2	Chem Kinetics - Envr Engr	3
2 Total						9
Grand Total						45

Undergraduate Course Prerequisites for students without an Engineering Degree

The following courses, or their approved equivalents from other departments, will meet these requirements

- * Fundamental Fluids – CivE-320
- * Basic Chemistry – CHEM-102
- * Thermodynamics – ENGR-210