

1. BS-ARCE: CAEE is merging two specializations - one electrical and lighting and one building mechanical and energy - into just one broader “building systems” specialization that includes all of the above. No change to hour requirements.

Please provide a summary and rationale for the requested program revision.

Minor changes include: 1) limiting number of EG electives to ensure engineering electives are chosen, 2) merging building electrical and lighting and building mechanical and energy specializations into one broader "building systems engineering" specialization that better aligns with our typical course offerings, 3) adding CAE 496 FE Exam prep requirement, 4) editing language around FE exam registration requirement.

¹ All technical electives must be CAE, EG, or ENVE courses at the 400-level or above. Students are limited to only one EG elective course.

All architectural engineering students are required to **register for** ~~take~~ the Fundamentals of Engineering (FE) examination during their senior year. The examination is offered by **the National Council** ~~the State~~ of **Examiners for Engineering and Surveying (NCEES)** throughout the year.

~~Illinois multiple times during the year.~~

~~Students should contact the Department of Civil, Architectural, and Environmental Engineering for information concerning this examination.~~

BUILDING SYSTEMS ENGINEERING
~~ELECTRICAL AND LIGHTING BUILDING~~
~~MECHANICAL AND ENERGY~~

GAE 465	Bldg Energy Conserve Techlgys	3
GAE 466	Building Electrical/Lighting	3
GAE 467	Lighting Systems Design	3

Select a minimum of nine credit hours from the following courses:		9
CAE 438	Control of Building Env. Sys.	3
CAE 453	Measurement & Instrumentation	3
CAE 463	Building Enclosure Design	3
CAE 465	Bldg Energy Conserve Techlgys	3
GAE 515	BIM Applications for Bldg Perf	3
GAE 550	Applied Bldg Energy Modeling	3
GAE 556	Net Zero Energy Home Dsgn I	3

2. Minor in environmental engineering: Relevant courses have been updated to be more consistent with current bulletin and recent offerings.

Please provide a summary and rationale for the requested program revision.

Updating acceptable course list

Course Requirements

Select six to nine credit hours from the following:		6-9
Select 15 credit hours from the following:		15
ENVE 201	Earth Environ Sci	3
ENVE 401	Introduction to Water Resource	3
ENVE 402	Introduction to Environmental	3
ENVE 403	Occup Environ Health Safety	3
ENVE 404	Water & Wastewater Engineering	3
ENVE 463	Intro Air Pollution Control	3
ENVE 485	Industrial Ecology	3
Select six to nine credit hours from the following:		6-9
GAE 421	Risk Assessment Engrg	3
ENVE 497	Special Project	1-3
CAE 401	Hydraulics, Hydrology, & Appl	3
CAE 439	Intro Geographic Info Syst	3
GAE 465	Bldg Energy Conserve Techigys	3
CAF 482	Hydraulic Dson Open Chnol Svst	3

3. Minor in building systems engineering: Relevant courses have been updated to be more consistent with current bulletin and recent offerings.

Please provide a summary and rationale for the requested program revision.

Minor changes to expand the electives list to more accurately reflect current offerings.

Course Requirements

CAE 331	Building Science	3
CAE 461	Plumbing/Fire Protection Dsgn	3
CAE 464	HVAC Systems Design	3
Select a minimum of two courses from the following:		6
CAE 424	Intro Fire Dynamics	3
CAE 425	Fire Protection & Life Safety	3
CAE 438	Control of Building Env. Sys.	3
CAE 453	Measurement & Instrumentation	3
CAE 463	Building Enclosure Design	3
CAE 465	Bldg Energy Conserve Techgys	3
CAE 466	Building Electrical/Lighting	3
CAE 467	Lighting Systems Design	3
Total Credit Hours		15