



ESF Minor Curriculum Change Proposal Form

Committee on Curriculum - ESF Faculty Governance
Office of Instruction & Graduate Studies

Date: November 29, 2022
Department: SRM
Curriculum Title: Construction Management

For Minor Changes in existing curriculum (check all that apply):

- | | |
|---|--|
| <input checked="" type="checkbox"/> revised courses | <input type="checkbox"/> change in total cr. hrs. |
| <input type="checkbox"/> new course sequence | <input type="checkbox"/> new program objectives* |
| <input checked="" type="checkbox"/> new courses added | <input type="checkbox"/> new accreditation/assessment requirements |

*See SUNY Guidelines

1. Rationale for Change

Please provide an explanatory narrative outlining the rationale for the change, and the impacts of this change on the learning outcomes of the curriculum:

Minor change to
(1) accommodate new SUNY General Education Framework by adding new DEISJ requirement, and
(2) change calculus requirement, as APM 115 has not been offered for a few years, and using only APM 105 to satisfy the requirement.

Current Curriculum				Proposed change		
FOUNDATION COURSES (with suggested ESF classes)				SUNY GER	Credits	Credits
English I	EWP190 Writing & the Environment	Basic Comm.	3			
English II	EWP290 Research, Writing & Humanities	Humanities	3			
Chemistry I (w/lab)	FCH110/111 Survey of Chemical Principles	Natural Science	4			
Physics (w/lab)	PHY211/221 General Physics I	Natural Science	4			
Algebra and Trig	APM104 College Algebra and Precalculus	Math	3			
Calculus	APM115 Essential Calculus	Math	4		Change course to APM 105	
Statistics	APM391 Intro. to Probability & Statistics	Math	3			
Economics	FOR207 Intro. to Economics	Social Science	3			
Presentation skills	EWP220 Public Presentation Skills	--	3			
Prin. of Management	FOR360 Principles Manage. for Env. Prof.	--	3			
General Education		DEISJ		3	Add Gen Ed DEISJ course, add 3 credits	
General Education	Select from two (2) of five (5) subject areas	varies	6	3	Change to "Select from one (1) of four (4) subject areas", reduce to 3 credits	
			Minimum Credit Hours	39	39	
CM PROFESSIONAL COURSES				Credits		
CME132 Orientation Seminar: Sustainable Construction Management and Engineering			1			
CME215 Sustainable Construction <u>or</u> CME304 Environmental Performance Measures			3			
CME226 Statics and Mechanics of Materials			4			
CME255 Plan Interpretation and Quantity Takeoff			3			
CME303 Internship			1			
CME305 Sustainable Energy Systems for Buildings			3			
CME306 Engineering Materials for Sustainable Construction			3			
CME327 Site Investigations and Solutions			3			
CME331 Construction Safety			3			
CME332 Mechanical and Electrical Equipment			3			
CME335 Cost Engineering			3			
CME342 Light Construction			3			
CME343 Construction Estimating			3			
CME404 Applied Structures			3			
CME405 Building Information Modeling for Construction Management			3			
CME453 Construction Planning and Scheduling			3			
CME454 Construction Project Management			3			
CME455 Construction Contracts and Specifications			3			
CME497 Senior Ethics Seminar			1			
ERE371 Surveying for Engineers			3			
FOR205 Principles of Accounting			3			
FOR485 Business and Managerial Law			3			
RMS387 Renewable Materials for Sustainable Construction			3			
RMS422 Composite Materials for Sustainable Construction			3			
			Minimum Credit Hours	70		
			Free Electives	18		
TOTAL REQUIRED FOR GRADUATION				124		

2. Institutional Impact:

Changes from existing condition:

Anticipated Enrollment or Enrollment Change: 0

Faculty or Staffing Requirements: 0

Technology, Computing Resources, and Classroom Resource Demands: None

Change in Accreditation Requirements: None

Changes to Assessment Plan: None

Library Resource Requirements: None

3. Catalog Narrative:

Please attach to this proposal form a copy of the current catalog description in MS Word format, with revisions shown in “track changes”.

[See next pages](#)

Bachelor of Science in Construction Management

- www.esf.edu/fnrm/cm

Construction Management prepares students to work in an integrated team with a diverse group of owners, architects, engineers, construction craftspersons, and material suppliers. The manager helps to ensure that the owner's goals for cost, schedule, quality, and sustainability are met. Students may enter the Bachelor of Science program as first-year students or as transfer students. Our graduates have excellent placement rates and starting salaries.

The Bachelor of Science degree in Construction Management at ESF is distinguished by a strong emphasis on project-based learning, a unique focus on sustainability, a hands-on laboratory environment, and a strong relationship with Syracuse University.

- Students are engaged each semester in classes, clubs, and competitions that allow them to take on responsibility and deliver projects for the campus and community. Whether building bridges or tiny homes, planning net zero projects for displaced residents or autistic children, CM students are building our future. To read how the CM students won a national prize for their work, and then helped the project be built, [click here](#).
- ESF is a leader in sustainability, and the Construction Management program is no different. Our CM students take multiple courses on sustainability, and a majority take and pass the LEED Green Associate exam. CM students help to organize and run the NYS Green Building Conference, where they meet and engage with professionals on the cutting edge of the industry. For more on the Green Building Conference, [click here](#).
- The green building materials lab, the wood machining lab, and the material testing lab give students the hands-on experience to understand the materials and processes used for construction. For an example of how CM students used their project management skills and these laboratories to design, plan, and construct an innovative bridge for the campus community, [click here](#).
- ESF construction managers work alongside Syracuse University architects and engineers on integrated team projects and competitions. ESF Construction Management students taking classes at Syracuse University find themselves working with students from Real Estate, Management, Architecture, and Civil Engineering majors. See the video below about the ESF and SU first place team at the 2019 Solar Decathlon.

The educational program, leading to the professional Bachelor of Science degree in Construction Management, is accredited by the American Council for Construction Education.

Lower Division Required Courses

Course		Codes*	Credits
APM 104	College Algebra and Precalculus	G	3

APM 105	Survey of Calculus and Its Applications I	G	4
OR			
APM 115	Essential Calculus	G	4
CME 132	Orientation Seminar: Sustainable Construction Management and Engineering		1
CME 215	Sustainable Construction		3
OR			
CME 304	Environmental Performance Measures for Buildings		3
CME 226	Statics and Mechanics of Materials		4
CME 306	Engineering Materials for Sustainable Construction		3
CME 332	Mechanical and Electrical Equipment		3
CME 342	Light Construction		3
EWP 190	Writing and the Environment	G	3
EWP 220	Public Presentation Skills		3
EWP 290	Research Writing and Humanities	G	3
FCH 110	Survey of Chemical Principles	G	3
FCH 111	Survey of Chemical Principles Laboratory		1
FOR 205	Principles of Accounting		3
FOR 207	Introduction to Economics	G	3
FOR 360	Principles of Management		3
PHY 211	General Physics I	G	3
PHY 221	General Physics I Laboratory		1
Electives			9

General Education courses

Course		Codes*	Credits
ESF XXX	Diversity, Equity, Inclusion and Social Justice course (TBD)	G	3
General Education courses in two <u>one</u> of the following categories: American History, Foreign Language, The Arts, Western Civilization, Other World Civilizations-US History and Civic Engagement, The Arts, World History and Global Awareness, World Languages		G	6 <u>3</u>

Upper Division Required Courses

Course	Codes*	Credits
APM 391	Introduction to Probability and Statistics	G 3
CME 255	Plan Interpretation and Quantity Takeoff	3
CME 303	Construction Management Internship	1 - 3
CME 305	Sustainable Energy Systems for Buildings	3
CME 327	Site Investigations and Solutions	3
CME 331	Construction Safety	3
CME 335	Cost Engineering	3
CME 343	Construction Estimating	3
CME 404	Applied Structures	3
CME 405	Building Information Modeling for Construction Management	3
CME 453	Construction Planning and Scheduling	3
CME 454	Construction Project Management	3
CME 455	Construction Contracts and Specifications	3
CME 497	Senior Ethics Seminar	1
ERE 371	Surveying for Engineers	3
FOR 485	Business and Managerial Law	3
RMS 387	Renewable Materials for Sustainable Construction	3
RMS 422	Composite Materials for Sustainable Construction	3

Upper Division Electives

Course	Codes*	Credits
Electives		9

Total Minimum Credits For Degree: 124

4. Curriculum Transition Plan:

Please provide a narrative description of your plan for transitioning from your existing curriculum to the proposed new curriculum. Please provide specific dates for implementing curriculum changes, overlap periods where old and new curricula may exist simultaneously, and final phase out of old curricula. Please also include impacts and mitigating considerations for transfer students and students in mid-program during implementation, impacts of changes in semester delivery of existing courses, addition of new courses within a particular semester, etc.

All CM students entering the program in Fall 2023 will be required to satisfy the requirements of the new curriculum. Existing students have the option to remain in the curriculum that existed when they entered ESF, or switch to the new curriculum.

5. Approval Signatures:

Signatures below, or attached letters, indicate that the affected departments, programs or units have been notified of this proposal and have had an opportunity to assess the impact of the proposal on their respective units. If departments did not respond to your notification, you may wish to document your effort to contact them.

Affected Academic Department(s) or Program(s):

Department/Program 1

Name of Chair/Program Director

Chair Signature

Date

Or letter attached

Department/Program 2

Name of Chair/Program Director

Chair Signature

Date

Or letter attached

Department/Program 3

Name of Chair/Program Director

Chair Signature

Date

Or letter attached

[If more/ess than three Departments/Programs, please add/delete lines as appropriate.]

Other Units

Library Director

Date

Or letter attached

Computing and Network Services Date _____ Or letter attached

Physical Plant Date _____ Or letter attached

Forest Properties Date _____ Or letter attached

Environmental Health and Safety Date _____ Or letter attached

Admissions Date _____ Or letter attached

Other _____
Date _____ Or letter attached

Other _____
Date _____ Or letter attached

Office of the Provost

Signature below, or attached letter, indicates that the Provost either a) agrees that that there is no need for additional resources from the College; or b) indicates willingness to provide the extra support to the department.

Provost Signature Date _____ Or letter attached

6. Proposer Information and Department Chair Affirmation:

Contact Person:

Name: Eddie Bevilacqua Department: SRM

Email: ebevilacqua@esf.edu Phone: x6697

This proposal has been reviewed and approved by the sponsoring Department. Affected departments have been notified and given the opportunity to provide feedback. Department resources are or will be made available to support this curriculum revision, or a plan is in place to meet the resource needs as identified in the Institutional Impacts section of this proposal (see Section 2, above) .

Name: Chris Nowak Date: _____
Department Chair (or designated curriculum representative)

Signature: _____ by email confirmation _____ Or letter attached
Department Chair (or designated curriculum representative)

7. Final Approvals:

Curriculum Committee

Date

Faculty Governance

Date

Provost

Date