

Curriculum Revision Form

Effective Date: FALL

Submission Date:

Department: Construction Management

College of: Technology

Contact Person: Don Colegrove

Minor Required? No

Revision

Major/Minor/Emphasis/Certification Name:

Construction Management

If selection is "Deletion" complete questions 2, 3, & 4, then complete signatures.

Revision to Curriculum – **REQUIRES ACADEMIC PLANNING EXCEL ATTACHED.**

Used to change program name and/or curriculum, effective the upcoming academic catalog.

Removes Major/Minor/Emphasis/Certificate from upcoming catalog.

1. Describe your Changes:

Changing the current either/or understanding of our math curriculum in regards to College Algebra and Plane Trigonometry.

Support courses will include the following:

MATH-122 Plane Trigonometry (3 hours)

MATH-113 College Algebra (3 hours) (If not completed in General Education Math Requirement)

(3-6) Hours of Construction electives (Refer to approved electives list)(3 hours of electives required if MATH 113 College Algebra is completed as a Support Course instead of General Education Requirement)

2. Rationale for change, including changes to curriculum objectives:

When we updated the program for the KBOR changes last year there was some confusion on how we stated our Math requirement. Our math requirement for College Algebra and Plane Trigonometry was interpreted as an either or situation, which was not correct. This is to clear that confusion up and get it in the program guide correctly.

3. Will this change affect any education majors? *If "yes," this requirement will need approval of the Council for Teacher Education before upload to " College Curriculum Legislation" in SharePoint.*

Yes No

4. If this change affects any other department on campus, **please attach any email notifications between departments.**

5. Does the revision meet University catalog definitions for majors, minors, emphases, and certificates as appropriate?

Yes No

6. Will additional resources or costs will be required?

Yes No

If so, what will be needed?

Definition of an Emphasis

Area of Emphasis is a specific subject area that exists within an approved degree program and major. At Pittsburg State University a minimum of 12 credit hours and no more than 24 credit hours are expected for an area of emphasis in a baccalaureate degree program.

Definition of a Minor

Minors at Pittsburg State University may range from 15 to 24 credit hours. When selected to accompany a degree that requires a minor there must be at least nine unique credit hours in the minor that are not found in the student's major in order to meet graduation requirements. In instances where the major requires a minor (not the degree type), academic departments/schools may specify minors that best achieve the learning objective for their students.

Definition of Certificate Program

A certificate program can be undergraduate or graduate in course content and provides a specific body of knowledge for personal or career development or professional continuing education. Certificates may be taken while also pursuing a degree or independent from any other studies at Pittsburg State University. It is recommended that if the student is only pursuing a certificate and not in conjunction with a degree and wishes to apply for federal financial assistance that they visit with personnel in the Student Financial Assistance office regarding the eligibility for aid for the certificate of interest. At Pittsburg State University a certificate can range from 12 credit hours to 24 credit hours.

Authorization Sign-Off Sheet

Checklist

- Program guide from current catalog.
- Academic Planning Excel attached.
- 120 Credit hours met.
- Course Id's match Course names.
- Course hours are correct.
- Listed courses are currently active
- Needed Documentation attached.

-Approved: Department Chair/Director

Date: 10/2/24

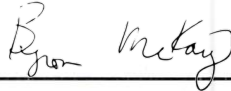
Signature: _____



-Approved: College Curriculum Committee

Date: 11/13/24

Signature: _____



-Approved: Dean of College

Date: 11/13/24

Signature: _____



-Approved: Council for Teacher Education (if applicable)

Date: _____

Signature: _____

-Approved: University Undergraduate Curriculum Committee

Date: _____

Signature: _____

-Approved: Faculty Senate

Date: _____

Signature, Recorder Faculty Senate: _____

Following final College Curriculum Committee approval, please apply the appropriate signatures, and send them to your College Administrator.

Originating Department: After completing this form, please upload it to the SharePoint, within the appropriate College folder, "Preliminary Legislation", to allow for review and questions. Any modifications should be saved as "original file name.v2.docx" and uploaded as well.

Bachelor of Science in Technology Degree with a Major in Construction Management

Degree: Bachelor of Science in Technology

Major: Construction Management

Emphasis available: Building Information Modeling (BIM), Business Management, Civil Construction, Field Management, General Construction, Residential Construction, Safety Management

Accreditation

Accredited by the Applied and Natural Science Accreditation Commission of ABET, <http://www.abet.org>

Core

Technical Specialties (55 hours)

*See notes *1*

- __ CMCET-133 Construction Graphics (3 hours)
- __ CMCET-234 The Construction Industry (3 hours)
- __ CMCET-235 Methods of Construction-Light Frame and Finishes (2 hours)
- __ CMCET-330 Mechanical Systems (HVAC) (3 hours)
- __ CMCET-331 Electrical Systems (3 hours)
- __ CMCET-333 Construction Statics and Structures (3 hours)
- __ CMCET-334 Methods of Construction-Sitework and Steel (3 hours)
- __ CMCET-335 Methods of Construction-Concrete and Masonry (3 hours)
- __ CMCET-337 Construction Materials Testing and Inspection (2 hours)
- __ CMCET-350 Mechanical Systems (Plumbing) (2 hours)
- __ CMCET-410 Technical Construction Spanish for the Jobsite Supervisor (3 hours)
- __ CMCET-434 Civil Construction (3 hours)
- __ CMCET-530 Construction Cost Management (3 hours)
- __ CMCET-537 Construction Surveying I (3 hours)
- __ CMCET-631 Construction Estimating I (3 hours)
- __ CMCET-634 Construction Management (3 hours)
- __ CMCET-635 Contract Administration (3 hours)
- __ CMCET-639 Construction Estimating II (3 hours)
- __ CMCET-691 Senior Project (4 hours)

*Notes *1: A grade of "C" or better is required for credit toward graduation and to satisfy pre-requisite requirements in all CMCET/MFGET/EST courses, MATH 113 College Algebra (or equivalent), MATH 122 Plane Trigonometry (or equivalent).*

Support Courses (19 hours)

*See notes *2*

- __ CMCET-200 Construction Internship/Cooperative Education (1-6 hours)
- or __ CMCET-300 Construction Internship/Cooperative Education (1-6 hours)
- or __ CMCET-400 Construction Internship/Cooperative Education (1-6 hours)
- Note: Minimum of one hour of CMCET 200, 300, & 400 required.*
- __ MATH-113 College Algebra (3 hours)
- or __ MATH-122 Plane Trigonometry (3 hours)
- __ ENGL-301 Technical/Professional Writing (3 hours)
- __ EST-296 Introduction to Construction Safety (3 hours)
- __ EST-496 Construction Safety (2 hours)
- and __ EST-497 Construction Safety Laboratory (1 hour)

*Notes *2: - Plus 6 hours of Construction Electives (Refer to approved electives list).*

Construction Electives

*See notes *3*

- __ CMCET-332 Residential Design and Management (3 hours)
- __ CMCET-336 Residential Land Development (3 hours)
- __ CMCET-338 Construction Codes and Inspections (3 hours)
- __ CMCET-340 BIM/VDC (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)
- __ CMCET-632 Steel Structures (3 hours)
- __ CMCET-633 Concrete Structures (3 hours)
- __ CMCET-637 Construction Surveying II (3 hours)
- __ CMCET-638 Foundation and Soil Mechanics (3 hours)
- __ CMCET-640 BIM Management (3 hours)
- __ CMCET-651 Civil Construction II (Highway/Bridge/Utility) (3 hours)
- __ CMCET-795 Special Topics in CMCET (___) (1-3 hours)
- __ EST-204 Introduction to Fire Safety (3 hours)
- __ EST-326 Basic Electrical Safety (3 hours)
- __ EST-512 Risk Assessment (3 hours)
- __ EST-514 Industrial Hygiene (3 hours)
- __ EST-516 Hazardous Materials (3 hours)
- __ EST-629 Legal Issues in Environmental Health and Safety (3 hours)
- __ EST-630 Safety Management (3 hours)
- __ MFGET-162 Welding Processes and Procedures (3 hours)

*Notes *3: Construction electives cannot be taken for credit in the Emphasis area and elective area.*

Select one 12 hour Emphases from below:

Building Information Modeling (BIM) Emphasis

- __ CMCET-340 BIM/VDC (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)
- __ CMCET-640 BIM Management (3 hours)
- __ CMCET-795 Special Topics in CMCET (___) (1-3 hours)

Business Management Emphasis

- __ ACCTG-201 Financial Accounting (3 hours)
- __ MKTG-201 Fundamentals of Marketing (3 hours)
- __ MGT-201 Introduction to Management (3 hours)
- __ MGT-430 Legal and Social Environment of Business (3 hours)

Civil Construction Emphasis

- __ CMCET-340 BIM/VDC (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)
- __ CMCET-637 Construction Surveying II (3 hours)
- __ CMCET-651 Civil Construction II (Highway/Bridge/Utility) (3 hours)

Field Management Emphasis

- __ MFGET-162 Welding Processes and Procedures (3 hours)
- __ CMCET-338 Construction Codes and Inspections (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)
- __ CMCET-637 Construction Surveying II (3 hours)

General Construction Emphasis

Select 12 hours from the following:

- __ CMCET-332 Residential Design and Management (3 hours)
- __ CMCET-336 Residential Land Development (3 hours)
- __ CMCET-338 Construction Codes and Inspections (3 hours)
- __ CMCET-340 BIM/VDC (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)
- __ CMCET-637 Construction Surveying II (3 hours)
- __ CMCET-640 BIM Management (3 hours)
- __ CMCET-651 Civil Construction II (Highway/Bridge/Utility) (3 hours)

Residential Construction Emphasis

- __ CMCET-332 Residential Design and Management (3 hours)
- __ CMCET-336 Residential Land Development (3 hours)
- __ CMCET-338 Construction Codes and Inspections (3 hours)
- __ CMCET-606 Construction Supervision and Leadership (3 hours)

Safety Management Emphasis

- __ EST-512 Risk Assessment (3 hours)
- __ EST-630 Safety Management (3 hours)

Select 6 hours from:

- __ EST-204 Introduction to Fire Safety (3 hours)
- __ EST-326 Basic Electrical Safety (3 hours)
- __ EST-514 Industrial Hygiene (3 hours)
- __ EST-516 Hazardous Materials (3 hours)
- __ EST-629 Legal Issues in Environmental Health and Safety (3 hours)

General Education Requirements

English Discipline Requirements - 6 Total Hours

- __ ENGL-101 English Composition (3 hours)
- __ ENGL-299 Introduction to Research Writing (3 hours)

Communications Discipline Requirements - 3 Total Hours

- __ COMM-207 Speech Communication (3 hours)

Mathematics & Statistics Discipline Requirements - 3 Total Hours

- __ MATH-110 College Algebra with Review (5 hours)
- __ MATH-113 College Algebra (3 hours)
- __ MATH-126 Pre-Calculus (4 hours)
- __ MATH-133 Quantitative Reasoning (3 hours)
- __ MATH-143 Elementary Statistics (3 hours)
- __ MATH-150 Calculus I (5 hours)
- __ MATH-204 Mathematics for Education I (3 hours)

Natural & Physical Sciences Discipline Requirements - 4/5 Total Hours

- __ BIOL-111 General Biology (3 hours)
- __ BIOL-112 General Biology Laboratory (2 hours)
- __ BIOL-113 Environmental Life Science (4 hours)
- __ BIOL-211 Principles of Biology I (4 hours)
- __ CHEM-105 Introductory Chemistry (3 hours)
- __ CHEM-106 Introductory Chemistry Laboratory (1 hour)
- __ CHEM-215 General Chemistry I (3 hours)
- __ CHEM-216 General Chemistry I Laboratory (2 hours)
- __ PHYS-100 College Physics I (4 hours)
- __ PHYS-104 Engineering Physics I (4 hours)
- __ PHYS-130 Elementary Physics Laboratory I (1 hour)
- __ PHYS-160 Physical Geology (3 hours)
- __ PHYS-165 Physical Geology Laboratory (1 hour)
- __ PHYS-166 Meteorology (3 hours)
- __ PHYS-167 Meteorology Laboratory (1 hour)
- __ PHYS-171 Physical Science (3 hours)
- __ PHYS-172 Physical Science Laboratory (1 hour)
- __ PHYS-175 Descriptive Astronomy (3 hours)
- __ PHYS-176 Astronomy Laboratory (1 hour)
- __ PHYS-375 Solar System Astronomy (3 hours)

Social & Behavioral Sciences Discipline Requirements - 6 Total Hours

- __ ANTH-101 Introduction to Cultural Anthropology (3 hours)
- __ ECON-191 Issues in Today's Economy (3 hours)
- __ ECON-200 Principles of Microeconomics (3 hours)
- __ ECON-201 Principles of Macroeconomics (3 hours)
- __ ETECH-502 Engineering Economy (3 hours)
- __ GEOG-106 World Regional Geography (3 hours)
- __ GEOG-300 Elements of Geography (3 hours)
- __ GEOG-304 Human Geography (3 hours)
- __ POLS-101 U.S. Politics (3 hours)
- __ POLS-103 Comparative Politics (3 hours)
- __ POLS-201 Introduction to Public Policy (3 hours)

- PSYCH-155 General Psychology (3 hours)
- SOC-100 Introduction to Sociology (3 hours)
- SWK-250 Relationship Skills (3 hours)
- WGS-200 Introduction to Women's Studies (3 hours)
- WGS-399 Global Women's Issues (3 hours)

Arts & Humanities Discipline Requirements - 6 Total Hours

- ART-178 Introduction to the Visual Arts (3 hours)
- ART-188 The Designed World (3 hours)
- ART-217 Crafts I (3 hours)
- ART-222 Jewelry/Metals I (3 hours)
- ART-233 Drawing I (3 hours)
- ART-244 Ceramics I (3 hours)
- ART-266 Sculpture I (3 hours)
- ART-277 Painting I (3 hours)
- ART-288 Introduction to Art History I (3 hours)
- ART-289 Introduction to Art History II (3 hours)
- ART-311 Art Education (3 hours)
- COMM-105 Performance Appreciation (3 hours)
- COMM-205 Performance Studies (3 hours)
- COMM-395 Theatre History () (3 hours)
- ENGL-113 Literature and Culture (3 hours)
- ENGL-114 General Literature (Genre) (3 hours)
- ENGL-116 General Literature (Theme) (3 hours)
- ENGL-117 Introduction to Fiction (3 hours)
- ENGL-118 Introduction to Poetry (3 hours)
- ENGL-120 Literature and Film (3 hours)
- ENGL-121 Intro to Anti-Racist Literature (3 hours)
- ENGL-122 Introduction to Women's Literature (3 hours)
- ENGL-123 The Citizen in Literature (3 hours)
- ENGL-125 Introduction to Horror in Literature (3 hours)
- ENGL-250 Introduction to Creative Writing (3 hours)
- ENGL-315 Mythology (3 hours)
- ENGL-320 Literature and Film (3 hours)
- HHP-151 Dance Appreciation (3 hours)
- HIST-101 World History to 1500 (3 hours)
- HIST-102 World History from 1500 (3 hours)
- HIST-201 American History to 1865 (3 hours)
- HIST-202 American History from 1865 (3 hours)
- HONOR-200 The Power of Music (3 hours)
- MLL-124 French Language and Culture I (3 hours)
- MLL-154 Spanish Language and Culture I (3 hours)
- MUSIC-120 Music Appreciation () (3 hours)
- MUSIC-121 Introduction to Music Literature (3 hours)
- MUSIC-321 History of Music (3 hours)
- MUSIC-322 History of Music (3 hours)
- PHIL-103 Introduction to Philosophy (3 hours)
- PHIL-105 Ethics (3 hours)
- PHIL-112 Biomedical Ethics (3 hours)
- PHIL-113 Business Ethics (3 hours)
- PHIL-114 Environmental Ethics (3 hours)
- PHIL-231 World Religions (3 hours)

Institutionally Designated Requirements - 6 Total Hours

- UGS-150 Gorilla Gateway (2 hours)

Any 1 credit hour class from the following:

- DANCE-200 Dance () (1-3 hours)
- EXSCI-200 Introduction to Exercise Science (1 hour)
- HHP-150 Lifetime Fitness Concepts (1 hour)

Any 3 credit hour class from 4, 5, 6 or the following:

- BIOL-617 Environmental Health (3 hours)
- BUS-101 Introduction to Business (3 hours)
- DSIS-130 Computer Information Systems (3 hours)
- EDUC-261 Explorations in Education (3 hours)
- EET-247 Computer Programming for Electronic Systems (3 hours)
- EDTH-330 Technology for Teaching and Learning (3 hours)
- FCS-203 Nutrition and Health (3 hours)
- FCS-230 Consumer Education and Personal Finance (3 hours)
- FIN-210 Financial Planning (3 hours)
- GT-210 Technology in the World Today (3 hours)
- GT-350 Technology and Civilization (3 hours)
- HIST-207 Health Habits in American History (3 hours)
- MECET-121 Engineering Graphics I (3 hours)
- MFGET-263 Manufacturing Methods I (2 hours)
- MFGET-268 Manufacturing Methods I Laboratory (1 hour)
- MFGET-405 Quality Control (3 hours)
- NURS-303 Introduction to Public Health (3 hours)
- PHIL-206 Rational Decisions (3 hours)
- PHIL-207 Critical Thinking (3 hours)
- PHIL-208 Logic (3 hours)
- REC-350 Promoting Community and Worksite Wellness (3 hours)

Revised: 09/16/2024

Make sure to attach the program guide from current catalog! (For Revised Curriculum)

<https://www.pittstate.edu/registrar/catalog>

Academic Planning Document for 2025-2026

Major/Emphasis/Minor/Certificate -

Course Prefix	Course Num.	Course Name	Cr. Hr.
Core Courses -			55
CMCET	133	Construction Graphics	3
CMCET	234	The Construction Industry	3
CMCET	235	Methods of Construction Light Frame-Finishes	2
CMCET	330	Mechanical Systems (HVAC)	3
CMCET	331	Electrical Systems	3
CMCET	333	Construction Statics & Structures	3
CMCET	334	Methods of Construction-Sitework and Steel	3
CMCET	335	Methods of Construction-Concrete and Masonary	3
CMCET	337	Construction Materials Testing and Inspection	2
CMCET	350	Mechanical Systems (Plumbing)	2
CMCET	410	Technical Construction Spanish for the Jobsite Supervision	3
CMCET	434	Civil Construction	3
CMCET	530	Construction Cost Management	3
CMCET	537	Construction Surveying I	3
CMCET	631	Construction Estimating I	3
CMCET	634	Construction Management	3
CMCET	635	Contract Administration	3
CMCET	639	Construction Estimating II	3
CMCET	691	Senior Projects	4
Support Courses -			19
CMCET	200/300 or 400	Construction Internship	1
MATH	122	Plane Trigonometry	3
MATH	113	College Algebra (If not completed in General Ed Math Requ.)	
ENGL	301	Technical/Professional Writing	3
EST	296	Introduction to Construction Safety	3
EST	496	Construction Safety	2
EST	497	Construction Safety Labortory	1
CMCET		3-6 constr. electives, ref to approve list. (3 if taking MATH 113)	6

		Emphasis Courses -	12
		Choose One Emphasis	
		Each emphasis is completed by taking 12 credit hours	12
		General Construction--12 hrs. (Choose 12)	
CMCET	340	BIM/VDC	3
CMCET	332	Residential Design & Management	3
CMCET	336	Residential Land Development	3
CMCET	338	Codes and Inspections	3
CMCET	606	Construction Supervision and Leadership	3
CMCET	637	Construction Surveying II	3
CMCET	640	BIM/VDC Management	3
CMCET	651	Civil Construction II	3
CMCET		Building Information Modeling--12	3
CMCET	340	BIM/VDC	3
CMCET	640	BIM/VDC Management	3
CMCET	606	Construction Supervision and Leadership	3
CMCET	795	Special Topics in CMCET	3
CMCET		Civil Construction	
CMCET	340	BIM/VDC	3
CMCET	637	Construction Surveying II	3
CMCET	651	Civil Construction II	3
CMCET	606	Construction Supervision and Leadership	3
CMCET		Business Management	
ACCTG	201	Financial Accounting	3
MKTG	201	Fundamentals of Marketing	3
MGT	201	Introduction to Management	3
MGT	430	Legal and Social Environment of Business	3
CMCET		Field Management	
MFGET	162	Welding Processes and Procedures	3
CMCET	338	Construction Codes and Inspections	3
CMCET	606	Construction Supervision and Leadership	3
CMCET	637	Construction Surveying II	3
CMCET		Residential Construction	
CMCET	332	Residential Design & Management	3
CMCET	336	Residential Land Development	3
CMCET	338	Codes and Inspections	3
CMCET	606	Construction Supervision and Leadership	3
		Safety	
EST	512	Risk Assessment	3
EST	630	Safety Management	3
EST		Choose 6 from remaining list	
EST	204	Introduction to Fire Safety	3
EST	326	Basic Electrical Safety	3
EST	514	Industrial Hygiene	3
EST	516	Hazardous Materials	3
EST	629	Legal Issues in Environmental Health & Safety	3

Elective Courses -			
CMCET	638	Foundation & Soil Mechanics	3
CMCET	640	BIM/VDC Management	3
CMCET	651	Civil Construction II	3
CMCET	795	Special Topics in CMCET	3
EST	512	Risk Assessment	3
EST	630	Safety Management	3
EST	204	Introduction to Fire Safety	3
EST	326	Basic Electrical Safety	3
EST	514	Industrial Hygiene	3
EST	516	Hazardous Materials	3
EST	629	Legal Issues in Environmental Health & Safety	3
MFGET	162	Welding Processes and Procedures	3
Total Credit Hours -			86
Minor -			0
General Education, 34-35 hours -			34
Total Credit Hours:			120

Be sure all information is correct and courses are active before submitting.
Curriculum Revisions **REQUIRE** a program guide from the current catalog, 24/25.
Your legislation will be returned if either is found.