

# Construction Engineering Technology

Freshman Year	Credits		
	Fall	Spring	Summer
ECIV 101 - Intro To Civil Engineering	1		
CHMY 121IN - Introduction to General Chemistry & CHMY 122IN - Introduction to General Chemistry Lab*	4		
ECNS 101IS - Economic Way of Thinking	3		
M 165Q - Calculus for Technology I*	3		
University Seminar - Choose one of the following:	3		

COMX 111US - Introduction to Public Speaking (formerly COM 110US)			
CLS 101US - Knowledge and Community			
US 101US - First Year Seminar			
LS 101US - Interdisciplinary Ways of Knowing			
BGEN 104US - Business & Entrepreneurship Fundamentals Seminar			
CLS 201US - Knowledge and Community			
Take CLS 201US if > 30 earned credits.			
HONR 201US - Texts and Critics: Knowledge & Imagination I			
ETCC 204 - Appld Analysis for Const Tech		1	
ETCC 243 - Building Materials and Systems		3	
M 166 - Calculus for Technology II		3	
PHSX 205 - College Physics I*		4	
EMAT 251 - Materials Structures and Prop		3	
WRIT 101W - College Writing I*		3	
Year Total:	14	17	

Sophomore Year	Credits		
	Fall	Spring	Summer
EGEN 203 - Applied Mechanics*	3		
PHSX 207 - College Physics II	4		
SRVY 230 - Intro to Surveying for Engineers	3		
DDSN 131 - Introduction to Drafting and Design	3		
Choose one of the following:	3		
BMGT 205 - Prof Business Communication			
WRIT 201 - College Writing II			
WRIT 221 - Intermediate Tech Writing			

HONR 202IH - Texts and Critics: Knowledge & Imagination II			
EGEN 208 - Applied Strength of Materials (University Core)**			3
SRVY 273 - Route Surveying**			3
GPHY 284 - Intro to GIS Science & Cartog			3
DDSN 166 - Revit I			3
Choose one of the following:			3
ACTG 201 - Principles of Financial Accounting			
BGEN 210 - Accounting and Finance Basics			
Year Total:	16	15	

Junior Year	Credits		
	Fall	Spring	Summer
ECIV 308 - Construction Practice**	3		
EGEN 331 - Applied Mechanics of Fluids**	3		
ETCC 302 - Soils and Foundations**	3		
STAT 216Q - Introduction to Statistics	3		
Tech Prof. Electives**	2		
University Core (IH, IA/RA or D)	3		
ECIV 307 - Construction Estimating and Bidding**		3	
EGEN 310R - Multidisciplinary Engineering Design**		3	
ETCC 310 - Concrete Technology**		3	
ECIV 404 - Heavy Const Equip and Methods		3	
University Core (IH, IA/RA or D)		3	
Tech. Prof. Electives		3	
ETCC 498 - Internship**			1-2
Year Total:	17	18	1-2

Senior Year	Credits		
	Fall	Spring	Summer
ECIV 311 - Construction Project Documentation**	2		
ECIV 405 - Construction Project Planning and Scheduling**	3		
ETCC 412 - Structural Elements**	3		
ETME 425 - Building Systems (Tech. Prof. Electives)**	3		
EGEN 330 - Business Fundamentals for Technical Professionals	3		
Tech. Prof. Electives	3		
ETCC 499R - Capstone: Const Engin Tech**		2	
BGEN 361 - Principles of Business Law		3	
Tech. Prof. Electives**		6	
University Core (IH, IA/RA or D)		3	
Year Total:	17	14	

**Total Program Credits: 128**

\* Key courses  
 \*\* Advanced courses

Additional requirements: At least 14 credits of technical-professional electives with a minimum of 2 credits of Internship Electives (maximum 6 credits). See the CET flow chart for a list of Internship Electives. A maximum of 6 credits total from Individual Problems, Internships (if taking 2 internships, must be from two separate employers), and Undergraduate Research may be counted toward professional electives. Students must successfully complete all key courses (\*) prior to taking any advanced courses (\*\*) which includes professional electives. A maximum of 3 credit-hours may be included from a completed MSU minor, a prior or concurrent BS/BA degree in another major, or courses in a completed MSU Honors Program. A student may petition to include other senior or graduate level courses consistent with the degree program but not listed here (requires Academic Advisor and Department Head approval). A minimum of 128 credits is required for graduation; 42 of these credits must be in courses numbered 300 and above.

### Technical-Professional Electives

ARCH 322IA	World Architecture I	3
ARCH 323IA	World Architecture II	3
BMGT 322	Operations Management	3
BMGT 329	Human Resource Management	3
BMGT 335	Management and Organization	3
BMGT 410	Sustainable Business Practices	3
BMKT 325	Principles of Marketing	3
DDSN 245	Civil Drafting	3
DDSN 266	Revit II	3
ECIV 309	Building Information Modeling in Construction	3
ECIV 334	Heavy Civil Construction Planning & Estimating	3
ECIV 350	Transportation Engineering	3
ECIV 401	Civil Eng Practice and Ethics	1
ECIV 406	Sustainability Issues in Construction	3
ECIV 417	Heavy Civil Construction Practices	3
ECIV 492	Independent Study	1-3
EELE 354	Electric Power Applications	3
EGEN 324	Applied Thermodynamics	3
EGEN 325	Engineering Economic Analysis	3
EIND 300	Engineering Management & Ethics	3
EIND 313	Work Design and Analysis	3
EIND 373	Production Inventory Cost Analysis	3
EIND 425	Technology Entrepreneurship	3
EIND 434	Project Management for Engineers	3
ETCC 492	Independent Study	1-3
ETCC 498	Internship	1-2
GPHY 384	Adv GIS and Spatial Analysis	0-3
GPHY 402	Water and Society	3
GPHY 426	Remote Sensing	3
GPHY 429R	Applied Remote Sensing	0,3
SRVY 355	Surveying Calculations	3
SRVY 361	Intro Legal Princ in Surveying	3
SRVY 362	Public Land Survey System	3
SRVY 375	Analytic Photogrammetry and Remote Sensing	3
SRVY 474	Project Design in Surveying	3