CIV 393 - Construction Management

Current Catalog Description:	Introductory course in construction management with an emphasis on estimating, scheduling, administration, project delivery, project control techniques, quality control and assurance, and safety.	
Prerequisite:	EST 392; AMS 361 or MAT 303 or MAT 305	
Corequisite:	None	
Textbooks and/or Other Required Material:	<u>Required Texts</u> : Construction Management Fundamentals, Second Edition by Knutson, Schexnayder, Fiori, and Mayo, 2009,ISBN 978-0-07-340104-1.	
This course is:	Required	
Topics Covered:	 Foundations of engineering economy Introduction to Construction Management Overview of Construction Industry Project Delivery Systems Construction Administration Estimating Earthwork Construction Mass Haul, Cycle Time Machine Power Equipment Selection Equipment Costs, Cost Estimates Understanding the Drawings Estimating Building Projects Equipment Quantities, Labor, Cost Project Control and Tracking Construction Safety Quality and Productivity 	
Course Learning and Student	Course Learning Objectives	ABET Student Outcomes
Outcomes:	Explain the characteristics and challenges of the construction industry within the U.S.	3, 4, 6, 7
	Explain concepts of construction administration, including project delivery systems, contracting requirements, project control, dispute resolution, safety, and quality assurance and control.	3, 7
	Solve large earth construction problems including earthwork volumes and flow, machine power, and equipment cycle times.	1, 2, 7
	Generate building construction estimates for time, labor, and materials.	1, 2, 6
	Apply principles of project scheduling	6, 7
	Apply principles of project control and tracking.	6, 7

