

Minnesota State College Southeast

BIKE 2090: Capstone

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 4

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the Capstone project that will demonstrate and showcase the student's knowledge and skills developed over the course of the program. Students will develop a practical physical or virtual model, design concept or algorithm that is relevant to the build, design, or development of bicycles. Faculty will assist students in their choice of projects and approve the selected project prior to kickoff. Students must adhere to a strict timeline and other Capstone guidelines. Students will be responsible for project management and presentation format. Students will present their project to faculty, industry partners, and peers. Students will be judged on a number of scales predefined in the Capstone guidelines. (Prerequisite: none) (4 credits)

B. COURSE EFFECTIVE DATES: 02/27/2018 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Project review and selection
2. Project kickoff and development
3. Project management
4. Presentation tools
5. Project presentation
6. Post presentation feedback

D. LEARNING OUTCOMES (General)

1. Learn how to generate project ideas and concepts
2. Learn how to verbalize project concepts for purposes of vetting and selection
3. Knowledge of how to develop a project plan and timeline, including costs, materials, and resources
4. Learn how to manage and track the projects progress and milestones
5. Gain knowledge of presentation tools
6. Understand how to effectively present the project outcomes and respond to questions
7. Understand the role that feedback plays on the success of future projects

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted