**Abbreviated Title (25 chars max):** Construction Scheduling  
**Dept Abbr(s):** CMSV

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Lecture Hours</th>
<th>Lab Hours</th>
<th>Total (min-max) Credits</th>
<th>Registration Tally</th>
<th>Lab Tally</th>
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</thead>
<tbody>
<tr>
<td>Construction Scheduling</td>
<td>2900</td>
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**Catalog Description:**

This course explores the basic techniques and guidelines of the critical path method (CPM), and the precedence diagramming method (PDM) scheduling. The student will develop skills to prepare construction schedules by considering the important aspects labor, equipment, and time cost scheduling. Practical step-by-step scheduling techniques will be applied to an actual construction project.

**Prerequisites:** CMSV 2870

**Topics: Topics covered and time allotments.**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>1. CPM Schedules</td>
<td>10%</td>
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<tr>
<td>2. Determining Durations</td>
<td>25%</td>
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<td>3. Calculating Activities</td>
<td>25%</td>
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<td>4. Managing Schedules</td>
<td>10%</td>
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<tr>
<td>5. Forecasting &amp; Balancing Resources</td>
<td>10%</td>
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<tr>
<td>6. Managing Projects Using Technology</td>
<td>20%</td>
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**If Qualifying Request for MN Transfer Curriculum, check here and select 1 or 2 Goals and their Competencies:**

1st Goal: Select a goal

**Competencies:**

2nd Goal: Select a goal

**Competencies:**
OUTCOMES:
(Include thinking skills/thinking abilities objective(s). A minimum of four measurable course outcomes required.) Refer to Bloom’s Taxonomy for appropriate verbs.

- The students will be able to:
  1. Generate a consistent system of actions in preparing construction project schedules by utilizing CPM and PDM principles.
  2. Deduce essential data that is required to prepare construction schedules from construction drawings.
  3. Prepare, develop, and refine individual CPM and PDM networks in classroom exercises upon an individual and team bases.
  4. Evaluate and use computer technology in scheduling.
  5. Apply scheduling techniques to an actual construction management project.
  6. Review, analyze, and interpret construction documents, product, and technical information associated with architectural, structural electrical, fire, HVAC, and plumbing systems.

OUTCOME MEASURES:
(Indicate any activity that demonstrates student competence and ways in which the faculty member will ascertain the student learning outcomes.)

- The department has agreed that these measures must be used:
  1. Quizzes 30%
  2. Papers 20%
  3. Classroom participation/discussion 10%
  4. Labs/field-trips 20%
  5. Final test 20%

Which of the college-wide learning outcomes does this course investigate?
- Communication: Students will create shared meaning appropriate to a variety of audiences by writing and speaker.
- Critical Thinking: Students will apply creative, rational, and value-sensitive modes of thought to information and experience.
- Civic Engagement: Students will identify and address issues of public concern through individual and collective actions beyond the classroom.
- None of the Outcomes

If Special Course Fee, check here □

Semesters offered (check appropriate semester(s)):
- Fall: Not Offered in Fall
- Spring: Every Spring
- Summer: Not Offered in Summer

Evaluate/Grading System (check):
- A – F: □
- P / F: □
- Both: □
- A-NC Dev. Only: □

All changes are effective the next Fall semester unless noted ________

Check all that have changed:
- New Course: □
- Deleted Course: □
- Course Title: □
  - Number: □
  - Hours: □
CURRICULUM COMMITTEE ACTION:

__________________________________________  __________________________
Academic Council Chair                      Date Approved

Primary CIP Code: _____

Submitted by:
    Name(s): Matt Simoneau