**CIV E 303 SYLLABUS**

COURSE NAME: Project Management- CIV E 303  
DETAILS: 3 hour lectures, 3/2 hour Lab   
TERM: Winter

COURSE DESCRIPTION

\*3.8 (fi 8) (either term, 3-0-3/2) Planning and scheduling; theories and techniques of project management.

REQUIRED MATERIAL

Sears, S.K., Sears, G.A., Clough, R.H., Rounds, J.L., and Segner, R.O. (2015). Construction project management: a practical guide to field construction management, 6th ed. Hoboken, NJ: John Wiley and

Sons. ISBN: 978-1-118-74505-2.

LECTURE CONTENT

|  |  |  |  |  |
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| **Date Week Topic Reading Lab Topics Assignments** | | | | |
| January 8  January 10  January 12  January 15  January 17  January 19  January 22  January 24  January 26  January 29  January 31  February 2  February 5  February 7  February 9  February 12  February 14  **February 16** | **1**    **2**    **3**    **4**    **5**    **6** | Introduction to Project Ch. 1 – 2  Management |  | |
| Construction Cost  Estimating Ch. 3 |
| **Lab 1:** Group Project Introduction | **Assignment 1:** Construction Cost Estimating  **\*due Jan. 29** |
| Project Planning Ch. 4 |
| **Lab 2:**  Cost and Time Estimating | **Assignment 2:** Planning and Scheduling and Production Planning  **\*due Feb. 12** |
| Project Scheduling Ch. 5 |
| Production Planning Ch. 6 |
| Time Management Exercise | **Lab 3:**  Project Scheduling |  |
| Guest Speaker |
| **Midterm Exam** |
| **Reading Week** | | |  |
| February 26  February 28  March 2 | **7** | Resource Management Ch. 8 |  |
| March 5  March 7 | **8**  **9**  **10**  **11**    **12**    **13** | Time‐Cost Trade‐Off Ch. 7 | **Lab 4:**  Resource Management | **Assignment 3:**  Advanced Scheduling  **\*due Mar. 16** |
| March 9  March 12  March 14 | Scheduling Uncertainty (PERT Networks) |
| March 16  March 19  March 21 | Project Time and Cost Ch. 11 Control |
| **Lab 5:**  Project Control |  |
| March 23  March 26  March 28 | Earned Value Analysis Ch. 12 |
| **Assignment 4:**  Project Control  **\*due Apr. 13** |
|  | **Easter Break** |
| April 4  April 6  April 9 | Project Cash Flow Ch. 9 – 11 |
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| April 11  April 13 | Linear Scheduling |
| **April 20 *\*tentative* Final Exam (9:00 AM)** | | | | |

LAB CONTENT

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| **Lab Topic** | **Date** |
| Lab 1: Group Project Introduction (H5, H7) | 2018-01-19 |
| Lab 2: Group Project Introduction (H6, H8) | 2018-01-26 |
| Lab 3: Cost and Time Estimating (H5, H7) | 2018-02-02 |
| Lab 4: Cost and Time Estimating (H6, H8) | 2018-02-09 |
| Lab 5: Project Scheduling (H5, H7) | 2018-02-16 |
| Lab 6: Project Scheduling (H6, H8) | 2018-03-02 |
| Lab 7: Resource Management (H5, H7) | 2018-03-09 |
| Lab 8: Resource Management (H6, H8) | 2018-03-16 |
| Lab 9: Project Control (H5, H7) | 2018-03-23 |
| Lab 10: Project Control (H6, H8) | 2018-04-06 |