**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 8January 10January 12January 15January 17January 19January 22January 24January 26January 29January 31February 2February 5February 7February 9February 12February 14**February 16** | **1****2****3****4****5****6** | Introduction to Project Ch. 1 – 2Management |  |
| Construction CostEstimating 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 26February 28March 2 | **7** | Resource Management Ch. 8 |  |
| March 5March 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 9March 12March 14 | Scheduling Uncertainty (PERT Networks) |
| March 16March 19March 21 | Project Time and Cost Ch. 11 Control |
| **Lab 5:**Project Control |  |
| March 23March 26March 28 | Earned Value Analysis Ch. 12 |
| **Assignment 4:**Project Control**\*due Apr. 13** |
|  | **Easter Break** |
| April 4April 6April 9 | Project Cash Flow Ch. 9 – 11 |
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| April 11April 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 |