UVU UTAH VALLEY UNIVERSITY™

Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: https://catalog.uvu.edu/

Semester: Spring-Full   **Year:** 2025
Course Prefix: CMGT   **Course and Section #:** 2080 -601
Course Title: Construction Scheduling **Credits:** 3:2:2

Course Description

Principles of Construction Scheduling provides fundamental skills required to plan and schedule construction projects. This course familiarizes students with computer scheduling software and construction scheduling techniques and concepts.

Click here to enter text. Course Attributes

This course has the following attributes:
☐ General Education Requirements
☐ Global/Intercultural Graduation Requirements
☐ Writing Enriched Graduation Requirements
☒ Discipline Core Requirements in Program
☐ Elective Core Requirements in Program
☐ Open Elective
Other: *Click here to enter text.*

Instructor Information

Instructor Name: Brandon Howell

Student Learning Outcomes

Course:

1) Define durations and activities based on historical data, input from project participants, and analysis of work to be done and schedule and update tasks using scheduling software.
2) Utilize CPM precedence network diagrams and bar charts to represent time dependent activities for a construction project.
3) Monitor resources and costs to manage cash-flow.

4 Analyze schedule and reports for variance and problem solving.

       ABET:
       7) An ability to use and apply current technical concepts and practices in planning and scheduling.
       10) An ability to function effectively on teams and demonstrate skills in leadership and managing people
       11) An ability to use and apply business and communication skills.

Course Materials and Texts
Construction Planning and Scheduling, 2nd Edition, Glavinich, Thomas E.
P6 Primavera Scheduling Classroom Application Software

Course Requirements

Course Assignments, Assessments, and Grading Policy
Coursework/Grading Scale: Summary of Anticipated Assignments

Assignments	Points	Due Date

Coursework/Grading Scale:

Mentor Term Group Project	***
Team Hvy Civil Topic Presentation	***
Project Management Articles Paper	***
Bar Chart Schedule	***
Villego P6 Schedule	***
Project Management Articles Paper	***
Forward Backward Pass Handout and Design	***
Crashing a Schedule Assignment	***
Midterm Exams (Parts I, II, III, IV)	***
Finals (Part I & II)	***
Estimated Total Points	***

Grading Scale Percentages:

A	= 93 - 100	C	= 69 - 73
A-	= 89 - 92	C-	= 60 - 68
B+	= 86 - 88	D+	= 56 - 59
B	= 82 - 85	D	= 51 - 55
B-	= 78 - 81	D-	= 45 - 50
C+	= 74 - 77	E	= 0 - 44

Required or Recommended Reading Assignments
No required textbook. See on-line scheduling related articles in course management system (Canvas)

General Description of the Subject Matter of Each Lecture or Discussion
Week 1: Project planning &Scheduling
Week 2: Network Diagram
Week 3: Activity Identifications & Estimating Activity duration
Week 4: Bar Chart schedules
Week 5: Mentor and Heavy Civil Presentation
Week 6: P6 Enterprise project
Week 7: Term Project Baseline Schedule Creation
Week 8: TASK planning
Week 9: Midterm review and assignment
Week 10: Spring Break
Week 11: Midterm
Week 12: P6 Schedule maintain and assign baselines
Week 13: Heavy Civil Presentations
Week 14: Heavy Civil Presentation
Week 15: Term projects team presentations

Required Course Syllabus Statements

Generative AI
AI is a generally accepted tool for researching concepts. AI is NOT an acceptable means of completing an assignment, it is to be synthesized with other research to create original submissions by the student author.

Using Remote Testing Software
☒ This course does not use remote testing software.

☐ This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

Required University Syllabus Statements

Accommodations/Students with Disabilities
Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU Accessibility Services at accessibilityservices@uvu.edu or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at DHHservices@uvu.edu

DHH is located on the Orem Campus in BA 112.

Academic Integrity
At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their rights and responsibilities. In each course, they are responsible for knowing the requirements and restrictions regarding research and

writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in UVU Policy 541: *Student Code of Conduct*.

Equity and Title IX

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – TitleIX@uvu.edu – 800 W University Pkwy, Orem, 84058, Suite BA 203.

Religious Accommodation

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at accessibilityservices@uvu.edu. If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a specially dedicated space for meditation, prayer, reflection, or other forms of religious expression.