**BCN 5789 Project Simulation**

M.E. Rinker Sr. School of Building Construction

University of Florida

**SYLLABUS**

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**PREREQUISITES:** Graduate standing, preparing for graduation

**OBJECTIVES:**

This course is intended to develop a higher level of comprehensive understanding of the construction process and problem solving that begins with conception and progresses through the completion, start-up, and maintenance of a construction project.

The expectations and caliber of the student’s work are elevated to the level of the business community and evaluated on that basis. Work that may have been previously accepted during the student’s academic career may no longer be acceptable. If the student’s work is considered unacceptable in the workplace, then is unacceptable here. If your boss won’t accept it neither will we.

A construction project is simulated with each student being responsible for designing, developing, estimating, scheduling, contracting, and administering the works for the completion of a small commercial or light industrial project.

**COURSE LEARNING OUTCOMES:**

Upon completion of this course students will demonstrate their ability to:

1. Formulate the overall design of the project and prepare a 3D virtual model.
2. Perform quantity takeoffs and develop a complete estimate of project costs.
3. Organize the elements of the project into a viable construction work plan and schedule.
4. Set up a project administration system for contracts, schedule of values, and pay applications.
5. Organize, present, and defend the technical and financial data of the project.
6. Prepare a project proposal from a commercial development/investment perspective.

**SCHEDULE:**

|  |  |  |
| --- | --- | --- |
| PROJECT FEASIBILITY PHASE | |  |
| Week 1 | Project Proposal |  |
| Week 2 | Site Selection |  |
| Week 3 | Feasibility Analysis |  |
| Week 4 | Qualification |  |
| Week 5 | Presentation 1 | Submittal Number 1 Due |
| PRE-CONSTRUCTION PHASE | |  |
| Week 6 | Green Building |  |
| Week 7 | Design Drawings |  |
| Week 8 | Project Estimate |  |
| Week 9 | Project Schedule |  |
| Week 10 | Presentation 2 | Submittal Number 2 Due |
| CONSTRUCTION PHASE | |  |
| Week 11 | Contracts |  |
| Week 12 | Pay applications |  |
| Week 13 | Change orders |  |
| CLOSEOUT PHASE | |  |
| Week 14 | Closeout |  |
| Week 15 | Presentation 3 |  |
| Week 16 | Final Presentations | Submittal Number 3 Due |

**PRESENTATIONS:**

An integral part of this course are presentations of your work to your peers.

Notice: Failure to make a presentation on your scheduled day results in a -20 point grade.

**CLASS ATTENDANCE:**

Attendance is mandatory. School sponsored activities in which the appropriate faculty coach has provided a previous written notification of the activity will warrant an excused absence.

Attendance is taken using a sign-in sheet or through attendance quizzes. You are responsible for all material presented in class, lecture notes on CANVAS, handouts, guest speakers, and anything said or written by the instructor.

Requirements for class attendance and make-up exams, assignments, and other work in the course are consistent with university policies that can be found at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

**GRADING:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| The point value for each assignment will be clearly indicated when assigned. | | | | | | | | | | | | |
| Letter Grade | A | A- | B+ | B | B- | C+ | C | C- | D+ | D | D- | F |
| Numeric Grade | 93-100 | 90-92 | 87-89 | 83-86 | 80-82 | 77-79 | 73-76 | 70-72 | 67-69 | 63-66 | 60-62 | 0-59 |
| Quality Points | 4.0 | 3.67 | 3.33 | 3.0 | 2.67 | 2.33 | 2.0 | 1.67 | 1.33 | 1.0 | 0.67 | 0.0 |

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

There is no rounding up of grades

**DUE DATES / LATE WORK:**

Allowing some persons extra tie to complete assignments while others are on time is inherently unfair. Therefore: ALL LATE WORK IS PENALIZED, regardless of the reason. You should consider the due date in a similar fashion to submitting a bid.

* Each submittal is due at the start of class on the due date. NOT by the end of class, NOT by the end of the business day.
* Submissions turned in after the start of class receive an automatic 10 percent deduction for each class period late. For example, if an assignment is due on Tuesday, and you do not turn it in, you have until the beginning of the next class (Thursday) to turn it in for a -10% reduction. You’ll receive a 20% reduction if you wait until the following Tuesday.
* Partial submissions are unacceptable. If your binder is missing an assignment, that assignment will get 0 points. Once you turn in your binder you cannot add missing items. It may be better to wait until the entire package is finished than turn in incomplete work.
* Once an assignment has been graded and returned to the class, no more late assignments will be accepted.

**HONOR CODE:**

UF students are bound by The Honor Pledge which states: We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “on my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code (<http://www.dso.ufl.edu/sccr/process/student-conduct-honor-cde/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

The Rinker School prides itself in “Promoting professional and ethical behavior in education and practice.” As students continue their academic careers in the Rinker School, it is imperative that everyone maintains a high level of integrity. In the classroom setting, this translates into honest work being performed by all students.

**PLAGIARISM:**

This course has been taught for many years and as a result there may be a temptation to “rely on the work of others.” Should the instructor determine that a student’s work is substantially similar to that of another (either past or present) the student may be subject to a rejection of that assignment and will be cited with an honor court violation. Similarly, the use of materials, worksheets, or data from previous semesters is considered cheating. The student understands that their work is subject to electronic verification by Turnitin® or other technologies.

**STUDENTS WITH DISABILITIES:**

Students with disabilities requesting accommodations should first register with the Disability Resources Center (352-392-8565 or [www.dso.ufl.edu/drc/](http://www.dso.ufl.edu/drc/)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

**COUNSELING:**

Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

**EVALUATIONS:**

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <http://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

**SOFTWARE:**

Students MUST have a laptop computer available for use in class.

Students MUST have access to a printer other than the BCN labs. Lack of BCN facilities is no excuse for missed or late assignments.

Students SHOULD have access to a color printer since assignments are marked down 10% if presented in black & white.

**CANVAS:**

This course utilizes CANVAS as a repository for all course material including lecture notes, quizzes, forms, tutorials, and grades. It is the student’s responsibility to take advantage of the university resources to learn how to utilize CANVAS.

Periodically the instructor will communicate with the class via e-mails from CANVAS. Please note: Do not respond to these e-mails. If you need to communicate use the instructor’s e-mail: russ1307@ufl.edu.

**GRADING:**

|  |  |
| --- | --- |
| Attendance and class participation | 5% |
| Presentation 1 | 10% |
| Submittal Number 1 | 10% |
| Presentation 2 | 15% |
| Submittal Number 2 | 15% |
| Presentation 3 | 20% |
| Submittal Number 3 | 25% |
| Total | 100% |

**SPECIAL NOTES:**

1. All assignments must be turned in hard copy format. Having the assignment on your computer, memory stick, or e-mail IS NOT ACCEPTABLE and does not substitute for turning in the assignment. Printing your assignments is totally your responsibility. The BCN lab is there for your convenience, however you are not excused from turning in your assignments if there are problems in the labs.
2. MS Project assignments are to be in color. Black & white submittals will be marked down 10%.