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| <b>COURSE TITLE<br/>BLACKBOARD<br/>SITE</b> | Construction Management ARC5952_OL<br>Spring 2011– <a href="http://my.ltu.edu">http://my.ltu.edu</a> and select CRN 3435   |
| <b>INSTRUCTOR</b>                           | Jos. C. Veryser, AIA, LEED AP<br>Associate Dean - CoAD<br>Contact Information<br>Email: <a href="mailto:jveryser@ltu.edu">jveryser@ltu.edu</a><br>Phone: 248.204.2818<br>Office hours by appointment   |
| <b>SCHEDULE</b>                             | Semester: January 10, 2011 to May 15, 2011<br><br>See syllabus calendar below<br><a href="http://www.ltu.edu/registrars_office/calendar_final_exam.index.asp">http://www.ltu.edu/registrars_office/calendar_final_exam.index.asp</a><br>for LTU academic calendar information. |
| <b>LEVEL/ HOURS<br/>PREREQUISITE</b>        | Graduate Degree /2 credit hours<br>Graduate level  |
| <b>REQUIRED TEXT</b>                        | The Construction Industry: Processes, Player, and Practices<br>Author: Ralph Liebing; ISBN: 0-13-863853-5<br>Copyright: 2001 Prentice Hall, Inc. Upper Saddle River, New Jersey 07458<br><br>Available for online purchase through LTU Bookstore                               |
| <b>ADDITIONAL<br/>RESOURCES</b>             | LTU Online student resources: <a href="http://www.ltu.edu/ltuonline/">http://www.ltu.edu/ltuonline/</a>  |
| <b>TECHNICAL<br/>SUPPORT</b>                | Technical support for using Blackboard is provided by the Helpdesk, 248.204.2330 or <a href="mailto:helpdesk@ltu.edu">helpdesk@ltu.edu</a>   |

### Course Description

The course provides a comprehensive study of construction management methods, including project planning, pros and cons of alternatives, demonstration of matching project situations to appropriate process and impact on sustainability. The course includes a comparison between traditional construction delivery methods and the commonly used fast tracking and phasing methods.

## Course Objectives

The objective of this course is to improve understanding of the Western architectural canons and traditions in building construction as well as the technological, socio economic, and other cultural factors that have shaped and sustained them.

## NAAB Criteria

The National Architectural Accrediting Board (NAAB) is the sole agency authorized to accredit professional degree programs in architecture in the United States. The mission of the NAAB is leadership in, and the establishment of, educational quality assurance standards to enhance the value, relevance, and effectiveness of the architectural profession. For additional information regarding NAAB go to [info@naab.org](mailto:info@naab.org) The following NAAB criteria have been incorporated into this course:

1. Writing skills
2. Critical Thinking Skills
- 8 Western traditions
10. National/regional tradition

## Assignments and Exams

There will be three written assignments of specified length and with a specified due date. There will be two exams and a final exam. All assignments and exams will be essay type and are expected to be grad level professional quality. Proper grammar, spelling, logical flow and continuity of thought are required. Content is expected to demonstrate critical thinking and digestion of course content and not merely a regurgitating of material as it was delivered. All work is to be the sole work of the student. The assignments and the exams are not to be conducted with the assistance of any other student or outside assistance. Review of the slides and the delivered material during the exams is permissible.

## COURSE SCHEDULE FOR SEMESTER COURSE

This fully online course begins with a partial week online course orientation period to familiarize yourself with the online learning environment and to meet online or via the phone with your instructor.

| Dates                                       | Modules  | Topics / Readings   | Assignments Due                |
|---|----------|---|--------------------------------|
| Prior to Semester Start and Jan 10 - Jan 14 | Module 0 | Course Orientation<br><br>Juggler Video                     | Instructor video presentation. |
| Jan 15 – Jan 23                             |          | Discussion Topic #1<br><br>Juggler Relevance                | Bb Discussion Board Forums     |
| Jan 10 – Feb 7                              | Module 1 | Text Chapter 1; pgs 1 – 9<br>Construction Industry at Large | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 2 | Text Chapter 1; pgs 10 – 27<br><br>History                  | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 3 | Text Chapter 1; pgs 10 – 27<br><br>Current History          | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 4 | Text Chapter 1; pgs 28 – 35<br><br>Quality                  | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 5 | Text Chapter 1; pgs 28 – 35<br><br>Major Project Elements   | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 6 | <br><br>Value Engineering (VE)                              | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 7 | Text Chapter 1; pg 37<br><br>Construction Effectiveness     | Lecture & PowerPoint           |
| Jan 10 – Feb 7                              | Module 8 | <br><br>Partner Selection                                   | Lecture & PowerPoint           |
| Feb 8 – Mar 1                               | Module 9 | Text Chapter 1; pgs 35 – 41<br><br>Design Bid Build (DBB)   | Lecture & PowerPoint           |

| Dates              | Modules   | Topics / Readings  | Assignments Due               |
|--------------------|-----------|--|-------------------------------|
| Feb 8 –<br>Mar 1   | Module 10 | Text Chapter 1; pgs 35 – 41<br><br>Design Bid Build (DBB)                  | Lecture & PowerPoint          |
| Feb 8 –<br>Feb 18  |           | Discussion Topic #2<br><br>Design Bid Build (DBB)                          | Bb Discussion Board<br>Forums |
| Feb 8 –<br>Mar 1   |           | Assignment #1  |                               |
| Mar 1 –<br>Mar 3   | Module 11 | Exam #1  |                               |
| Mar 1 –<br>Apr 7   | Module 12 | Text Chapter 1; pg 37<br>Construction Management -<br>Advisor              | Lecture & PowerPoint          |
| Mar 1 –<br>Apr 7   | Module 13 | Text Chapter 1; pg 37<br>Construction Management -<br>Agent                | Lecture & PowerPoint          |
| Mar 10 –<br>Mar 20 |           | Discussion Topic #3<br><br>Construction Management                         | Bb Discussion Board<br>Forums |
| Mar 1 –<br>Apr 7   | Module 14 | Intro to video<br>Construction Manager<br>Walbridge                        | Lecture & PowerPoint          |
| Mar 1 –<br>Apr 7   | Module 15 | Construction Management –<br>Constructor                                   | Lecture & PowerPoint          |
| Mar 10 –<br>Mar 31 |           | Assignment #2  |                               |
| Mar 1 –<br>Apr 7   | Module 16 | Construction Management<br>Summary   | Lecture & PowerPoint          |
| Mar 1 –<br>Apr 7   | Module 17 | Text Chapter 1; Pgs 38 – 40<br><br>Design Build (DB)                       | Lecture & PowerPoint          |
| Mar 1 –<br>Apr 7   | Module 18 | Design Led / Design Build<br>(DLDB)  | Lecture & PowerPoint          |
| Mar 1 –<br>Apr 7   | Module 19 | Introduction to video<br>Design Led Design Build<br>Harley Ellis Devereaux | Lecture                       |

| Dates             | Modules   | Topics / Readings  | Assignments Due               |
|-------------------|-----------|--|-------------------------------|
| Mar 23 –<br>Apr 2 |           | Discussion Topic #4<br><br>Design Build (DB)   | Bb Discussion Board<br>Forums |
| Mar 15 –<br>Apr 6 |           | Assignment #3  |                               |
| Apr 1 –<br>May 1  | Module 20 | Text Chapters 1 & 2; Pgs 39<br>- 64<br>Team Players  | Lecture & PowerPoint          |
| Apr 5 –<br>Apr 15 |           | Discussion #5<br><br>VE and the various methods  |                               |
| Apr 1 –<br>May 1  | Module 21 | Introduction to video<br>Project Management<br>Spectrum Strategies   | Lecture                       |
| Apr 7 –<br>Apr 9  | Module 22 | Exam #2  |                               |
| Apr 1 –<br>May 1  | Module 23 | Text Chapters 1 & 2; Pgs 67<br>- 94<br>Pre-Construction Overview<br>Intro to video<br>Harley Ellis Devereaux | Lecture & PowerPoint          |
| Apr 1 –<br>May 1  | Module 24 | Text Chapters 1 & 2; Pgs 67<br>- 94<br>Pre-Construction Overview<br>Intro to video<br>Walbridge              | Lecture & PowerPoint          |
| Apr 1 –<br>May 1  | Module 25 | Text Chapter 2; Pgs 94 -<br>112<br>Construction overview and<br>contract documents                           | Lecture & PowerPoint          |
| Apr 1 –<br>May 1  | Module 26 | Text Chapter 2; Pgs 113 -<br>123<br>Key Const. Terminology   | Lecture & PowerPoint          |
| Apr 1 –<br>May 1  | Module 27 | Sustainability in the<br>construction process  | Lecture & PowerPoint          |
| May 2 –<br>May 4  | Module 28 | Final Exam   |                               |

## STUDENT EVALUATION

### Student Evaluation

The course has a total of 440 points (left column). Letter grades are awarded based on the total percentage of points achieved (right column). Points are deducted for late assignments.

| Assignments                                  | Points |
|--|--------|
| Assignment 1                                 | 30     |
| Assignment 2                                 | 45     |
| Assignment 3                                 | 75     |
| Exam #1                                      | 50     |
| Exam #2                                      | 75     |
| Final Exam                                   | 90     |
| Online Participation<br>(5 @ 15 points each) | 75     |
| Total Points                                 | 440    |

| Class Percentages | Letter Grade |
|-------------------|--------------|
| 96 and above      | A            |
| 90 – 95           | A-           |
| 87 – 89           | B+           |
| 83 – 86           | B            |
| 80 – 82           | B-           |
| 77 – 79           | C+           |
| 73 – 76           | C            |
| 70 – 72           | C-           |
| 69 and below      | E            |
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**Note: Grades lower than “B” fall below the LTU graduate standard**

All exams are intended to be the sole response of the individual student. They are not ‘team’ or ‘partner’ exams. Students are free to treat the exams as ‘open book’ and refer to the slides, notes and textbook.

**Blackboard Learning Environment** – Blackboard at my.ltu.edu contains the syllabus, all assignments, reading materials, streaming videos, narrated PowerPoint mini-lectures, podcasts, written lecture notes, chapter quizzes, links to Web resources, and discussion forums. You will submit all assignments via Blackboard, and are expected to participate regularly in discussion topics. Please take time to familiarize yourself with the organization of the Blackboard site. You will want to check the site frequently for announcements reminding you of new resources and upcoming assignments.

**Student/Instructor Conversations** – Students keep in touch with the instructor via e-mail messages, telephone conference calls, and IM conversations.

**Self-Assessments** – Pre- and post- self-assessment tools will help students measure their entering skills and progress during the course.

**Required Reading** – Textbook chapters should be read according to the schedule outlined in the syllabus. Chapters will be discussed online.

**Publisher Web Site** – A publisher web site at <http://www.cengage.com/nnn> includes instructional materials, PowerPoint slides, case studies, application exercises, and practice quizzes. You should make use of as many of these resources as you need to be successful.

## **CLASS POLICIES AND EXPECTATIONS**

**(Please review to verify the information supports student expectations. Update as needed for alignment with your course policies, learning objectives, and student expectations.)**

*I plan to offer you a valuable learning experience, and expect us to work together to achieve this goal. Here are some general expectations regarding this course:*

Each student has a LTU email account. If you wish to use a different email address for this course, please **change your email address in Blackboard under “Blackboard Tools”, then “Personal Information”**.

Readings, discussion forum participation, and written assignments must be completed according to the class schedule. It is important to contact the instructor as needed to discuss personal needs regarding course requirements and assignments.

It is essential that all students actively contribute to the course objectives through their experiences and working knowledge.

All assignments must be submitted on schedule, via Blackboard, and using Microsoft Office compatible software. If you need to submit an assignment via email, contact the instructor in advance.

Assignments must be completed to an adequate standard to obtain a passing grade. Requirements for each assignment are detailed in this syllabus.

Be prepared to log into Blackboard at least once each day. Please focus your online correspondence within the appropriate Blackboard discussion forums so that your colleagues can learn from you.

At midterm and at the end of the course, you will be invited to participate in a University evaluation of this course. Your feedback is important to the University, to LTU Online, and to me as an instructor, and I encourage you to participate in the evaluation process.

It is important for you as students to know what to expect from me as your instructor:

- I will be available to you via e-mail and phone, and will promptly reply to your messages.
- I will be available to you for face-to-face appointments as requested.

- I will maintain the Blackboard web site with current materials, and will resolve any content-related problems promptly as they are reported to me.
- I will return all assignments to you promptly, and will include individualized comments and suggestions with each assignment.
- I will hold our personal written or verbal communications in confidence. I will not post any of your assignments for viewing by the class without requesting your approval in advance.
- I will treat all members of the class fairly, and will do my best to accommodate individual learning styles and special needs.
- If any of these points need clarification, or when special circumstances arise that require my assistance, please contact me so that we can discuss the matter personally.

## **PRACTICAL GUIDELINES FOR CLASS LOAD EXPECTATIONS**

A three-credit course generally requires at least nine hours per week of time commitment. Here are some practical guidelines to help schedule your time commitments for this online course:

- A 14-week semester (the Summer semester is compressed into 10 weeks) would require at least 126 hours of time commitment to successfully complete all readings, activities, assignments, and texts as described in this syllabus.
- You should reserve at least 6 hours per week to read the required textbook chapters and resources, participate in online discussions, review presentation materials, and work through online quizzes. This effort will total at least 84 hours over the course of the semester.
- You should organize your remaining time to roughly correspond with the point value of each major assignment. This means that you should plan to spend at least:
  - 8-9 hours preparing your case study review;
  - 24-40 hours working with your group on the three parts of your semester-long project;
  - 8-9 hours working on the various components of your reflective consolidation (final exam).

These guidelines may not reflect the actual amount of outside time that you – as a unique individual with your own learning style – will need to complete the course requirements. The number of hours each week will vary based on assignment due dates, so please plan ahead to insure that you schedule your academic, work, and personal time effectively. The following graphic can be used to guide you in planning your weekly course work to remain on schedule:



| Online Learning Schedule                                       |      |  |     |     |     |     |
|--|------|--|-----|-----|-----|-----|
| MON  | TUES | WED  | THU | FRI | SAT | SUN |
| Read Textbook Chapter  |      |  |     |     |     |     |
|  |      | Take Online Chapter Quiz                     |     |     |     |     |
|  |      | Participate in Weekly Blackboard Discussions |     |     |     |     |
| Individual and Group Project Work - Coordinate With Colleagues |      |  |     |     |     |     |
| Instructor Communication - As Needed                           |      |  |     |     |     |     |

## ASSIGNMENT DETAILS

Course assignments and evaluation criteria are detailed below. Please review these requirements carefully. See the section Academic Resources / Assessment Guidelines for information about assessment of written and oral presentations.

Details for all assignments are shown below. Please note that you should not submit any assignments to the Blackboard “Digital Drop Box.” All assignments are submitted using the Blackboard “Assignments” or “SafeAssign” function. Some assignments are also posted to the Blackboard Discussion Forum for student comments.

### Assignment Evaluation Points

#### Deliverables and Evaluation.

- Organization and overall writing quality – 7 points
- Grammar and spelling – 5 point
- Overall critical thinking and logic– balance of points for each assignment
- Use of citations from trade or academic journals – 2 points
- Use of APA citation formatting – 1 point

### Online Participation Points

Each student is expected to actively participate in online activities. Class participation is evaluated to a maximum of 15 points per Discussion Topic based on:

- Up to 10 points – for pacing of contribution across the specified interval
- Up to 5 points – for quality of contributions

## SYLLABUS ADDENDA

Please see the LTU Online “Current Students” web site <http://www.ltu.edu/ltuonline/> for comprehensive information about Lawrence Tech’s academic services, library services, student services, and academic integrity standards. The content of this web site is explicitly included as syllabus requirements.



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The LTU Online “Current Students” web site also includes grading rubrics used by your instructor to evaluate written assignments, discussion forum participation, and group assignments. Please note that the SafeAssign anti-plagiarism product will be used for written assignments submitted for this course. Please see the instructions included on the LTU Online web site regarding the use of the SafeAssign product.