# Construction Project Controls

<table>
<thead>
<tr>
<th>Course Prefix:</th>
<th>CONS</th>
<th>Course No.:</th>
<th>4773</th>
<th>Section No.:</th>
<th>.01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Department of:</td>
<td>Architecture</td>
<td></td>
<td>Community Development</td>
<td>Art</td>
<td></td>
</tr>
<tr>
<td>Instructor Name:</td>
<td>Prof. RP Eguia, MBA, PhD (In progress)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Location:</td>
<td>School of Architecture PVAMU - Main Campus</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Phone:</td>
<td>936-261-9832</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fax:</td>
<td>(936) 261-9826</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Email Address:</td>
<td><a href="mailto:rpeguia@pvamu.edu">rpeguia@pvamu.edu</a> and/or <a href="mailto:eguiarudy@yahoo.ca">eguiarudy@yahoo.ca</a></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Postal Service Address:</td>
<td>Prairie View A&amp;M University</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>P.O. Box 519</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mail Stop 2100</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Prairie View, TX 77446</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Hours:</td>
<td>7:30 - 8:00 &amp; 9:30 - 12:00 am Tue. - Thurs. and 5:00 - 6:00 Tue. &amp; 4:00 – 6:00 Wed.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual Office Hours:</td>
<td>5:00 - 6:00 pm Mon. and Fri.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Location:</td>
<td>Nathelyne Archie Kennedy Building, Room 227</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class Meeting Days &amp; Times:</td>
<td>Tuesday &amp; Thursday 8:00 - 9:20 am</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Catalog Description:</td>
<td>&quot;(3-0) Credit 3 semester hours. Introduction of students to construction related financial documents; includes schedule of values, labor and operations cost reports, and construction budgets, trace construction dollar flow from time sheet to balance sheet.&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Prerequisites:</td>
<td>none</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-requisites:</td>
<td>none</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Required Text:**

- **Title:** Project Control - Integrating cost and schedule in construction
- **Author:** Wayne J. DelPico
- **ISBN:** 978-1-118-41913-7
- **Publisher:** John Wiley & Sons, Inc.

**Optional Text:**

- **Title:** Project Management – Planning and Control Techniques
- **Author:** Rory Burke
- **ISBN:** 978-1-118-56125-6
- **Publisher:** John Wiley & Sons, Inc.

Access to Learning Resources

PVAMU Library:
Telephone: (936) 261-1500;
web: http://www.tamu.edu/pvamu/library/

University Bookstore:
Telephone: (936) 261-1990;
web: https://www.bkstr.com/Home/10001-10734-1?demoKey=d

Course Goals or Overview:
The goal and focus will be on various aspects of Project Controls. The primary emphasis is to help students to understand related financial documents and general methods managing projects. The goal of the course is to provide topics that include schedule of values, labor and operations cost reports and construction budgets, trace construction dollar flow from time sheet to balance sheets and two project case studies.

Course Outcomes/Objectives
At the end of this course, the student will
1. Be able to understand schedule of values.
2. Be able to understand the construction management practice.
3. Demonstrate the ability to make labor and operations cost reports and construction budgets.
4. Define and understand the different methods of construction project controls.
5. Be able to understand the construction dollar flow from time sheet to balance sheet.
6. Identify the need of risk management, resource management, and project closeout.

Course Requirements & Evaluation Methods
This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course. Note: See Program Outcomes in True Outcomes

- **Exams** – written tests designed to measure knowledge of presented course material
- **Exercises** – written assignments designed to supplement and reinforce course material
- **Projects** – web development assignments designed to measure ability to apply presented course material
- **Class Participation** – daily attendance and participation in class discussions

(Instruments will vary slightly depending on the course)

Grading Matrix (Points will vary according to instructor’s grading system)

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Value (percentages)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments &amp; Homework’s</td>
<td>10 assignments @ 3% ea.</td>
<td>30%</td>
</tr>
<tr>
<td>Exam #2</td>
<td>Mid-Term @15%</td>
<td>15%</td>
</tr>
<tr>
<td>Exam #4 Project #1</td>
<td>Final Exam @ 15%</td>
<td>15%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>3 quizzes @ 3.33% ea.</td>
<td>10%</td>
</tr>
<tr>
<td>Projects</td>
<td>Ex-Credit @ 5% if required</td>
<td>5%</td>
</tr>
<tr>
<td>2-Exam’s</td>
<td>10% each</td>
<td>20%</td>
</tr>
<tr>
<td>Class Participation/ Discussion &amp; Class Attendance</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>105 %</strong></td>
</tr>
</tbody>
</table>

Grade Determination:
- A = 400–350 points
- B = 349–300 points
- C = 299–250 points
- D = 249–200 points;
- F = 199 points or below

Course Procedures

Submission of Assignments:

CONS 4773 CONSTRUCTION PROJECT CONTROLS COURSE SYLLABI
PRAIRIE VIEW A&M UNIVERSITY SCHOOL OF ARCHITECTURE
Formatting Documents:
Microsoft Word is the standard word processing tool used at PVAMU. If you’re using other word processors, be sure to use the “save as” tool and save the document in either the Microsoft Word, Rich-Text, or plain text format.

Exam Policy
Exams should be taken as scheduled. No makeup examinations will be allowed except under documented emergencies (See Student Handbook).

Professional Organizations and Journals
(n/a)

References
(n/a)

Addendum
Students enrolled in the course will receive an “Addendum” that will contain detailed information on the following topics:
- Accreditation/Assessment Criteria
- Instructor’s Attendance and Participation Policy
- Personal Conduct
- Conduct of the Class and Care of the Facility
- Detailed Course Schedule
- Statement of Agreement
| Week One: Topic | Chapter (s): Ch.1 – The Basics  
Assignment (s): Read ch.1 & ch.2 |
|----------------|--------------------------------------------------|
| Week Two: Topic | Chapter (s): Ch.2 – Introduction to Project Controls  
Assignment (s): Read ch.4 and Homework #1 |
| Week Three: Topic | Chapter (s): Ch.4 – The Schedule  
Assignment (s): Quiz #1, Read ch.5, Homework #2 and Begin case study #1 |
| Week Four: Topic | Chapter (s): Ch.5 – The Budget and Read ch.6  
Assignment (s): **EXAM #1 in Ch. 1, 2 & 4** |
| Week Five: Topic | Chapter (s): Ch.5 – The Budget and Read ch.6  
Assignment (s): Read ch.6 and Homework #3 - Video, field trip or guest speaker #1 |
| Week Six: Topic | Chapter (s): Ch.6 - Integrating the Schedule and the Budget  
Assignment (s): Read ch.7 and Homework #4 |
| Week Seven: Topic | Chapter (s): Ch.7 – Calculating and Analyzing Progress  
Assignment (s): Quiz# 2, Read ch.8 and Homework #5 |
| Week Eight: Topic | Chapter (s): **Mid-Term Exam #2 in Ch. 5, 6 & 7**  
Assignment (s): Ch.8 – Analyzing and Reporting Variances in Schedule and Cost  
Read ch.9 |
| Week Nine: Topic | Spring Break  
Chapter (s): none  
Assignment (s): none |
| Week Ten: Topic | Chapter (s): Ch.9 – Recognizing Trends and Forecasting Performance  
Assignment (s): Read ch.13 and Homework #6 - Video, field trip or guest speaker #2 |
| Week Eleven: Topic | Chapter (s): Ch.9 - Recognizing Trends and Forecasting Performance  
Assignment (s): Quiz#3, Read ch.13 and Homework #7 |
| Week Twelve: Topic | Chapter (s): **Exam #3 in Ch. 8 & 9 & 13**  
Assignment (s): Ch.13 – Risk Management and Homework #8 - Begin Case Study #2, Read ch.12 |
| Week Thirteen: Topic | Chapter (s): Ch.12 – Resource Management  
Assignment (s): Read ch.12 and Homework #9 - Video, field trip or guest speaker #3 |
| Week Fourteen: Topic | Chapter (s): Ch.12 – Resource Management  
Assignment (s): Read ch.14 and Homework #10 |
| Week Fifteen: Topic | Chapter (s): Ch.14 – Project Closeout  
Assignment (s): **Part 1 for Project #1** |
| Week Sixteen: Topic | Final Presentation on Paper #1  
Part 2 for Project #1 (Final Exam) |
| Week Seventeen: Topic | **---** |
University Rules and Procedures

Disability statement (See Student Handbook):
Students with disabilities, including learning disabilities, who wish to request accommodations in class should register with the Services for Students with Disabilities (SSD) early in the semester so that appropriate arrangements may be made. In accordance with federal laws, a student requesting special accommodations must provide documentation of their disability to the SSD coordinator.

Academic misconduct (See Student Handbook):
You are expected to practice academic honesty in every aspect of this course and all other courses. Make sure you are familiar with your Student Handbook, especially the section on academic misconduct. Students who engage in academic misconduct are subject to university disciplinary procedures.

Forms of academic dishonesty:
1. Cheating: deception in which a student misrepresents that he/she has mastered information on an academic exercise that he/she has not mastered; giving or receiving aid unauthorized by the instructor on assignments or examinations.
2. Academic misconduct: tampering with grades or taking part in obtaining or distributing any part of a scheduled test.
3. Fabrication: use of invented information or falsified research.
4. Plagiarism: unacknowledged quotation and/or paraphrase of someone else’s words, ideas, or data as one’s own in work submitted for credit. Failure to identify information or essays from the Internet and submitting them as one’s own work also constitutes plagiarism.

Nonacademic misconduct (See Student Handbook)
The university respects the rights of instructors to teach and students to learn. Maintenance of these rights requires campus conditions that do not impede their exercise. Campus behavior that interferes with either (1) the instructor’s ability to conduct the class, (2) the inability of other students to profit from the instructional program, or (3) campus behavior that interferes with the rights of others will not be tolerated. An individual engaging in such disruptive behavior may be subject to disciplinary action. Such incidents will be adjudicated by the Dean of Students under nonacademic procedures.

Sexual misconduct (See Student Handbook):
Sexual harassment of students and employers at Prairie View A&M University is unacceptable and will not be tolerated. Any member of the university community violating this policy will be subject to disciplinary action.

Attendance Policy:
Prairie View A&M University requires regular class attendance. Excessive absences will result in lowered grades. Excessive absenteeism, whether excused or unexcused, may result in a student’s course grade being reduced or in assignment of a grade of “F”. Absences are accumulated beginning with the first day of class.

Student Academic Appeals Process
Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, errors, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

Technical Considerations for Online and Web-Assist Courses
Minimum Hardware and Software Requirements:
- Pentium with Windows XP or PowerMac with OS 9
- 56K modem or network access
- Internet provider with SLIP or PPP
- 8X or greater CD-ROM
- 64MB RAM
- Hard drive with 40MB available space
- 15” monitor, 800x600, color or 16 bit
- Sound card w/speakers
- Microphone and recording software
- Keyboard & mouse
- Netscape Communicator ver. 4.61 or Microsoft Internet Explorer ver. 5.0 /plug-ins
- Participants should have a basic proficiency of the following computer skills:
  - Sending and receiving email
  - A working knowledge of the Internet
  - Proficiency in Microsoft Word
  - Proficiency in the Acrobat PDF Reader
  - Basic knowledge of Windows or Mac O.S.

**Netiquette (online etiquette):** students are expected to participate in all discussions and virtual classroom chats when directed to do so. Students are to be respectful and courteous to others in the discussions. Foul or abusive language will not be tolerated. When referring to information from books, websites or articles, please use APA standards to reference sources.

**Technical Support:** Students should call the Prairie View A&M University Helpdesk at 936-261-2525 for technical issues with accessing your online course. The helpdesk is available 24 hours a day/7 days a week. For other technical questions regarding your online course, call the Office of Distance Learning at 936-261-3290 or 936-261-3282

**Communication Expectations and Standards:**
All emails or discussion postings will receive a response from the instructor within 48 hours.

You can send email anytime that is convenient to you, but I check my email messages continuously during the day throughout the work-week (Monday through Friday). I will respond to email messages during the work-week by the close of business (5:00 pm) on the day following **my receipt** of them. Emails that I receive on Friday will be responded to by the close of business on the following Monday.

**Submission of Assignments:**
Assignments, Papers, Exercises, and Projects will distributed and submitted through your online course. Directions for accessing your online course will be provided. Additional assistance can be obtained from the Office of Distance Learning.

**Discussion Requirement:**
Because this is an online course, there will be no required face to face meetings on campus. However, we will participate in conversations about the readings, lectures, materials, and other aspects of the course in a true seminar fashion. We will accomplish this by use of the discussion board.

Students are required to log-on to the course website often to participate in discussion. It is strongly advised that you check the discussion area daily to keep abreast of discussions. When a topic is posted, everyone is required to participate. The exact use of discussion will be determined by the instructor.

**It is strongly suggested** that students type their discussion postings in a word processing application and save it to their PC or a removable drive before posting to the discussion board. This is important for two reasons: 1) If for some reason your discussion responses are lost in your online course, you will have another copy; 2) Grammatical errors can be greatly minimized by the use of the spell-and-grammar check functions in word processing applications. Once the post(s) have been typed and corrected in the word processing application, it should be copied and pasted to the discussion board.