GRADUATE COUNCIL REPORT
7 December 2006

TO: Modeling of steady and unsteady flow in natural and constructed channels and hydraulic structures. Open channel hydraulics. Design and analysis of hydraulic structures, canals, and flood mitigation projects. Sediment and contaminant transport in river systems.

Prerequisite(s):
FROM: CVEN 458
TO: CVEN 339

Hours
FROM: (2-3) Credit 3
TO: (3-0) Credit 3

Prerequisite Changes:

Course Title: COSC 621 Advanced Topics in Scheduling & Project Management
FROM: COSC 602 or equivalent & STAT 651
TO: COSC 602 & COSC 603 or equivalent, STAT 651

Course Title: COSC 624 Project Acquisition & Control
FROM: COSC 602 or equivalent
TO: COSC 602 & COSC 603 or equivalent

Course Title, Prerequisite, Course Description

CPSY 630 FOUNDATIONS OF COUNSELING

Prerequisite:
FROM: Approval of Dept. Head
TO: Graduate Classification; Approval of Department Head

Course Description:
FROM: Philosophical, psychological and sociological concepts fundamental to counseling and related helping professions.
TO: Philosophical, psychological and sociological concepts fundamental to counseling and related helping professions in public and mental health settings.
Texas A&M University

Artmental Request for a Change in Course
Undergraduate • Graduate • Professional

• Submit original form and 2 copies •

1. This request is submitted by the Department of Construction Science

2. Course prefix, number and complete title of course: COSC 621 Advanced Topics in Scheduling & Project Management

3. Change requested:
   a) Prerequisite(s): From COSC 602 or equivalent & STAT 651 To COSC 602 & COSC 603 or equivalent; STAT 651
   b) Withdrawal (reason)
   c) Cross-list with
   Cross-listed courses require the signatures of both department heads.
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:
   Advanced techniques used in scheduling and evaluating progress in construction project control; development of strategies for overcoming overruns; resource allocations; case studies.

5. Complete proposed course title and proposed course description (not to exceed 50 words): No Change

6. a) As currently in course inventory:

<table>
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<td>Advanced Topics in Scheduling &amp; Project Management</td>
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</tr>
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Approval recommended by:

Head of Department: [Signature] 10-18-06

Chair, College Review Committee: [Signature] 11-9-06

Head of Department (if cross-listed course): [Signature] 11/9/06

Dean of College: [Signature]

Submitted to Coordinating Board by:

Dean of College: [Signature]

Director of Academic Support Services: [Signature]

Date: [Signature] Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.

OAR/AS-504
COSC 621 – ADVANCED TOPICS IN CONSTRUCTION PROJECT SCHEDULING AND PROJECT MANAGEMENT
9:30 PM - 10:50 AM, TUESDAY AND THURSDAY

Term: Spring 2006
Location: 107A Langford A
Instructor: Dr. Yilnaz H. Karasulu
Office: 330 Langford A Bldg
Phone: 845 7218
Email: ykarasulu@tamu.edu
Web Page: http://ykarasulu.tamu.edu
Office Hours: 9:30 am – 12:30 pm Wednesdays or by appointment

PREREQUISITE: COSC 602, STAT 651.

CATALOG COURSE DESCRIPTION: COSC 621 - Advanced Topics in Construction Project Scheduling and Project Management (3-0) Credit 3. Advanced techniques used in scheduling and evaluating progress in construction project control; development of strategies for overcoming overruns; resources allocations; case studies

COURSE OBJECTIVES: A student completing COSC 621 will be able to develop a construction execution plan and identify and manage deviations to that plan. Students will be able to:
1. To develop an advanced understanding of parameter estimates for component systems
2. To develop an advanced understanding of how various building components fit together, their sequence and optimization techniques
3. To develop an understanding of utilization and efficient use of resources
4. To develop an in-depth understanding of the use and importance of scheduling software
5. To develop an understanding of methodologies used to evaluate actual field progress, project and cost control

COURSE POLICIES: 1. No late homework or make-up exams (excuses for such are defined by the university regulations).
2. Students are encouraged to attend their classes. If absence is necessary, Instructors are to be notified before the fact, if possible.
3. Each and every student is entitled to as much consultation time as may be required. To preserve the privilege of obtaining individual assistance, each student is expected to attend class regularly.
4. In-class participation and questions are encouraged. They may positively influence grading decisions in borderline cases.
5. All cell phones must be off, not vibrate, but off while in class. All cell phones will be inside back packs or otherwise stored away from the student during all examinations.
6. All students are required to have a University network account to access the computers in the lab.

COURSE MATERIAL & RESOURCES: Course Materials:
- Required Course Materials, Project Information and Handouts will be provided by the instructor in hardcopy or digital format through WebCT.

Additional Resources:
- Primavera Project Planner Reference Manual, Copyright 1999 - Primavera Inc.

GRADE POLICY: Mid Term Exam 20%
Final Exam 20%
Class Project 20%
Term Paper 20%
PPT and Quiz 20%

GRADE SCALE: A  ≥ 90
B  80 – 89.9999
C  70 – 79.9999
D  60 – 69.9999
F  ≤ 59.9999
# COSC 621 - Advanced Topics in Construction Project Scheduling & Project Management

## Course Outline and Assignments

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<th>Topic</th>
<th>Assignments &amp; Milestones</th>
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<td>Introduction, Course Requirements, Principles of Construction Planning</td>
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<td>Jan 19</td>
<td>Construction Planning and Scheduling – Terminology and Principles</td>
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<td>Activities, Tasks and Production – Gantt Charts and Precedence Networks</td>
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<td>Schedule Control, Monitoring and Management</td>
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<td>Feb 9</td>
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<td>Schedule Analysis and Documentation</td>
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### Midterm Exam – Tuesday, February 28, 2006

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<td>Alternative Scheduling and Planning Methods</td>
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<td>16</td>
<td>Mar 21</td>
<td>Optimization and Decision Making Techniques</td>
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<td>17</td>
<td>Mar 23</td>
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<td>19</td>
<td>Mar 30</td>
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### Spring Break – March 13-17, 2006

### Final Exam – Friday, May 5, 2006 - 12:30-2:30 P.M.

This Schedule is subject to change with appropriate notification.
COSC 621 – ADVANCED TOPICS IN CONSTRUCTION PROJECT SCHEDULING & PROJECT MANAGEMENT
Term Paper Procedure and Topics

PREPARATION FOR PAPER TOPIC SELECTION

1. Minimum of 15 paper abstracts with proper citation.
2. Communication with the instructor to explore and select a topic.

PREPARATION FOR PAPER ABSTRACT

1. Title/Name
2. Paper Description (Intro)
3. Problem Statement (Rationale)
4. Proposed Tasks
5. Minimum of 5 refereed journal paper references (references must be submitted w/ abstract hardcopy or digital format).

PREPARATION FOR FINAL PAPER

1. Must Follow ASC Style Guide available at www.ascweb.org
2. Minimum of 10 refereed journal paper references. (references must be submitted w/ final paper hardcopy or digital format).

SUGGESTED TOPICS

1. Construction Planning Methods (Body of Knowledge)
2. Construction Planning Tools
3. Construction Scheduling Methods (Body of Knowledge)
4. Construction Scheduling Tools
5. Construction Cost Control Methods (Body of Knowledge)
6. Construction Cost Control Tools
7. Management System Integration Methods and Tools
8. Web Based Project Management
9. Computational and Optimization Methods in Scheduling
10. Computational and Optimization Methods in Planning and Site Management
11. Schedule Acceleration and Applications
12. Construction Performance Analysis
13. Data Collection Methods for Field Operations
14. Decision Making Methodologies in Construction Management
15. Emergency Construction Planning and Applications
16. Construction Planning and Scheduling Failures
17. Communication Methods for Construction Management

5 of 11 K
- **Americans with Disabilities Act (ADA) Policy Statement**

The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was forwarded to the Faculty Senate for information.

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

- **Academic Integrity Statements**

**AGGIE HONOR CODE**

"An Aggie does not lie, cheat, or steal or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit: [www.tamu.edu/aggiehonor/](http://www.tamu.edu/aggiehonor/)
Texas A&M University
Artmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and 2 copies •

1. This request is submitted by the Department of Construction Science.

2. Course prefix, number and complete title of course: COSC 624 Project Acquisition & Control

3. Change requested:
   a) Prerequisite(s): From COSC 602 or equivalent To COSC 602 & COSC 603 or equivalent
   b) Withdrawal (reason)
   c) Cross-list with Cross-listed courses require the signatures of both department heads.
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   c) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:
   Acquisition of new work in the construction industry; overview of organizational theory, strategic planning and business planning in the construction industry; acquisition procedures including response techniques for complex requests for proposals; understanding concepts of sales and marketing, backlog, and business development budgeting in construction.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   No Change

6. a) As currently in course inventory:

   Prefix | Course # | Title (exclude punctuation) |
   ------ | -------- | ----------------------------|
   COSC   | 624      | Acquisition & Control        |
   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code |
   03    | 03       | SCH                         | Admin. Unit | FICE Code |
   003632 |         |                             | Level       |

   b) Changed to:

   Prefix | Course # | Title (exclude punctuation) |
   ------ | -------- | ----------------------------|
   |        |               |
   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
   |        |        | SCH                         | Admin. Unit | Acad. Year | FICE Code |
   |        |        |                             | Level       |

   Approval recommended by:

   Head of Department 10-18-06
   Head of Department (if cross-listed course) Date
   Submitted to Coordinating Board by:
   Director of Academic Support Services Date
   Chair, College Review Committee Date
   Dean of College Date
   Date

   Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
OAR/AS- 504
TEXAS A&M UNIVERSITY
DEPARTMENT OF CONSTRUCTION SCIENCE

COURSE SYLLABUS: SPRING 2006
COSC 624 – 600 PROJECT ACQUISITION AND CONTROL
ARCA 323, MW 3:00-4:15

Dr. Jerry R. Jackson
Langford 318-A
919-845-2532 jerry.r.jackson@tamu.edu
Office Hours: 10:00-11:00 MWF, 4:15 – 5:15 MW

Credit: Three Hours

Description: This course introduces students to new business acquisition concepts and methods. Topics include business strategy development and management, external and customer analysis, market analysis, internal analysis and strategic positioning. Frequent class exercises will challenge students to apply these concepts to construction industry examples.

Students will each select a construction company, identify the company’s market strategy and present this information to the class. Students will work in teams in an RFQ competition to apply concepts studied in class.


Prerequisites: COSC 602 & COSC 603 or equivalent

Time/Location: MW 3:00 – 4:15 PM, ARCA 323

Grading: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: Below 60
Evaluation Percentages: Exam 1: 30%, Exam 2: 20%, Company Presentation: 30%
Team Competition: 20%

Make-up Exams: Make-up exams will be accommodated in cases where (1) arrangements are made prior to the exam date, or (2) a serious unexpected emergency arises, or (3) your situation meets university requirements for make-up exams.
SPECIAL PROVISIONS:

THE AMERICANS WITH DISABILITIES ACT (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Room 126 of the Koldus Building or call 845-1637.

AGGIE HONOR CODE. The instructor will apply strict standards of academic honesty. Students are encouraged to approach each assignment using their own background and knowledge to produce an original work product. Using other's work, including samples from the internet [which are usually of poor quality], without crediting the source, is plagiarism.

"An Aggie does not lie, cheat, or steal or tolerate those who do."

Honor Council Rules and Procedures may be found on the web at http://www.tamu.edu/aggiehonor

At the end of each writing assignment [or in a separate attachment as appropriate], include the following [failure to include this statement will cause the assignment to be graded -20 points for incorrect format]:

"On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."

________________________________________
Signature of student
### TENTATIVE CLASS SCHEDULE

The following is a tentative schedule and is subject to any changes the instructor feels are necessary to best meet the objectives of this course.

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<th>Day</th>
<th>Topic</th>
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<td>Introduction, Syllabus, Course Objectives</td>
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<td>Business Structure/RFQ/RFP; Traditional Approach to Construction</td>
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<td>Project Acquisition; Introduction to Strategic Marketing/Planning/</td>
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<td>Execution; Strategic Marketing Examples</td>
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<td>March</td>
<td>30</td>
<td>Ch 2. Strategic Market Management: Overview</td>
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<td>February</td>
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<td>Conduct Research on the Beck Group</td>
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<td><strong>Note this is a Friday - Rowlet Lecture/Beck Group Lecture:</strong></td>
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<td>**Tearing Down the Silos. 12:00 - 4:45 pm. Attendance is mandatory,</td>
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<td>unless you get approval from me.</td>
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<td>Discussion of Beck Group Lecture</td>
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<td>Ch 5. Market/Submarket Analysis</td>
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<td>Ch 6. Environmental Analysis and Strategic Uncertainty</td>
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<td>Ch 7. Internal Analysis, Ch 8. Creating Advantage</td>
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<td>Ch 9. Strategic Options, Ch 10. Value, Focus and Innovation</td>
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<td>Ch 11. Global Strategies Ch 12. Strategic Positioning</td>
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Texas A&M University

Request for a Change in Course

Undergraduate  Graduate  Professional

Submit original form and 2 copies.

1. This course is submitted by the Department of _____EDUCATIONAL PSYCHOLOGY_____.

2. Course prefix, number and complete title of course: CPSY 630 FOUNDATIONS OF COUNSELING

3. Change requested:
   a) Prerequisite(s): From Approval of Dept. Head To Graduate Classification; Approval of Department Head
   b) Withdrawal (reason)
   c) Cross-list with

   Cross-listed courses require the signatures of both department heads.

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and course description: CPSY 630 FOUNDATIONS OF COUNSELING Philosophical, psychological and sociological concepts fundamental to counseling and related helping professions. Prerequisite: approval of department head.

5. Complete proposed course title and course description (not to exceed 50 words): CPSY 630 FOUNDATIONS OF COUNSELING Philosophical, psychological and sociological concepts fundamental to counseling and related helping professions in public and mental health settings. Prerequisite: Graduate classification; approval of department head.

6. a) As currently in course inventory:

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</tbody>
</table>

Approval recommended by:

Head of Department: [Signature] Date: 11-16-06

Chair College Review Committee: [Signature] Date: 11-16-06

Head of Department (if cross-listed course): [Signature] Date: 11-16-06

Dean of College: [Signature] Date: 11-16-06

Submitted to Coordinating Board by:

Director of Academic Support Services: [Signature] Date: 11-16-06

Effective Date: 11 of 11 K