The University Curriculum Committee recommends approval of the following:

1. **New Courses**

   **BUAD 101. Freshman Business Seminar.** (2-0). Credit. Freshman orientation seminar to business; introduction to resources and opportunities in Mays Business School; emphasis on career opportunities and development of personal and professional competencies; includes ethics, development of skills in leadership, teamwork, critical thinking and problem solving. Prerequisite: Freshman admitted to Mays Business School.

   **BUAD 201. Sophomore Business Seminar.** (1-0). Credit. Sophomore seminar to encourage an appreciation for a diverse knowledge base for business majors; includes guest faculty from departments throughout the University, required readings, team meetings and discussion groups. Prerequisite: Sophomore standing in Mays Business School.

   **ENGR 483. Energy and the Environment.** (3-0). Credit. Introduction to methods to generate electricity including actual overall costs, efficient use and conservation; political and ethical issues associated with energy use in the world. Prerequisite: Junior or senior level in engineering.

   **HIST 347. Rise of Islam, 600-1258.** (3-0). Credit. Introduction to Islamic civilization from the rise of Islam to the Mongol conquests; examination of pre-Islamic poetry, the Qur’an, early Islamic laws on prayer, the ethical conventions of jihad, the lives of Muslim women, and the relation of Islam to Judaism and Christianity. Prerequisite: Junior or senior classification. Cross-listed with RELS 347.

   **NVSC 205. Naval Sea Power and Maritime Affairs.** (2-2). Credit. A survey of naval history emphasizing the major developments in naval strategy, tactics, technology, and the effects of political climate; significant naval engagements and historic figures; includes an introduction to the theory of war, Mahan’s naval strategy, the role of maritime commerce and the importance of a maritime policy to maintain global stability. Prerequisite: NVSC 203.

   **RELS 347. Rise of Islam, 600-1258.** (3-0). Credit. Introduction to Islamic civilization from the rise of Islam to the Mongol conquests; examination of pre-Islamic poetry, the Qur’an, early Islamic laws on prayer, the ethical conventions of jihad, the lives of Muslim women, and the relation of Islam to Judaism and Christianity. Prerequisite: Junior or senior classification. Cross-listed with HIST 347.

2. **Changes in Courses**

   **ENTC 215. Introduction to Telecommunications.**

   Credit hours
   - From: (3-0). Credit 3.
   - To: (3-2). Credit 4.

Credit hours
From: (2-3). Credit 3.
To: (3-3). Credit 4.

ENTC 425. Local and Metropolitan Area Networks.

Course number
From: ENTC 425.
To: ENTC 315.

MEEN 260. Introduction to Engineering Experimentation.

Course title
From: Introduction to Engineering Experimentation.
To: Mechanical Measurements.

ATMO 335. Atmospheric Thermodynamics.

Prerequisites
From: CHEM 102; PHYS 219 or 208.
To: CHEM 102; MATH 251; PHYS 218.

ATMO 459. Tropical Cyclones.

Course title
From: Tropical Cyclones.
To: Tropical Meteorology.

Course description
From: Tropical climatology; structure, evolution and motion of tropical cyclones, tropical cyclone hazards; large-scale tropical phenomena.
To: Tropical climatology; structure, evolution, and motion of tropical cyclones; tropical cyclone hazards; large-scale tropical phenomena.

NVSC 402. Leadership and Management II.

Course title
From: Leadership and Management II.
To: Leadership and Ethics.
Texas A&M University

Departmental Request for a New Course

Undergraduate • Graduate • Professional

Submit original form and 25 copies. Attach a course syllabus to each.*

1. This request is submitted by the Department of: Business

2. Course prefix, number and complete title: BUAD 101 Freshman Business Seminar

3. Course description (not more than 50 words): Freshman orientation seminar to business. Introduction to resources and opportunities in Mays Business School. Emphasis on career opportunities and development of personal and professional competencies. Topics include ethics, development of skills in leadership, teamwork, critical thinking and problem solving.

4. Prerequisite(s): Freshman admitted to Mays Business School

5. Is this a variable credit course? □ Yes □ No If yes, from _______ to _______

6. Is this a repeatable course? □ Yes □ No If yes, this course may be taken _______ times. Will the course be repeated within the same semester/term? □ Yes □ No

7. Has this course been taught as a 289/489/689? □ Yes □ No If yes, how many times? _____ Indicate the number of students enrolled for each academic period it was taught. 105; 196; 199

8. This course will be:
   a. Required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix | Course # | Title (exclude punctuation)
    ---- | -------- | ----------------------------------------
    BUAD | 101 | FRESHMAN BUSINESS SEMINA

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>SCH</th>
<th>Subject Matter Content Code</th>
<th>Admin. Unit</th>
<th>Academic Year</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department
Date

Head of Department (if cross-listed course)
Date

Submitted to Coordinating Board by:

Dean of College
Date

Director of Academic Support Services
Date

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.
Freshman Business Initiative

BUAD 289-501, Section Alpha
Syllabus for Fall 2003

<table>
<thead>
<tr>
<th>Mentor</th>
<th>Location</th>
<th>Phone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Coordinator:</td>
<td>Dr. Martha Louder</td>
<td>401S WCBA</td>
<td>845-1807</td>
</tr>
<tr>
<td>Faculty Advisor:</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Course Objectives**
The ultimate goal of Freshman Business Initiative is to ensure a successful transition from high school to college, impacting the life of each freshman through student and faculty mentoring. Specifically, FBI strives to:

- Build long-lasting relationships with peers and advisors that will benefit students throughout their lives.
- Lead students to becoming well-rounded and culturally knowledgeable individuals.
- Provide students with the tools to be successful in the classroom and in the business world.
- Introduce new freshman to the resources and opportunities in Mays Business School.
- Create a small school atmosphere within Texas A&M to ease freshmen’s transition into college life.

**Organization of the course**
Enrollment in the Fall of 2003 is limited to two sections of 100 freshmen each, a total of 200 freshmen. Each freshman will be randomly assigned to one of twenty teams. Each team will be led by two upper-classmen (the peer mentors). Each team has a faculty advisor who serves as a consultant to the mentors in matters of teaching, course administration, and problem management. The course meets twice a week, on Mondays and Wednesdays, from 3:00 p.m. to 3:50 p.m. Some class times are spent in one large group, in WCBA room 160. Others are spent in teams at a location to be determined by the mentors. Class type and location depends on the section in which the student is enrolled:

- **Section Alpha:** Mondays-lecture session, WCBA Room 160
  Wednesdays-team meeting, location determined by mentors.
- **Section Bravo:** Mondays-team meeting, location determined by mentors
  Wednesdays-lecture session, WCBA Room 160

There are three mandatory out-of-class events – Covert Operation Alpha (Sept. 5, 4 pm to 11 pm), an Etiquette Dinner (Nov. 4 or 6, evening), and an OPAS Performance (Oct. 8 or 9, 7 pm). These will be explained in class and freshmen are expected to attend. Each absence from a
mandatory event will result in a 6 point deduction from the student’s overall grade. Other attendance requirements are explained in the section entitled Grading Criteria.

Prerequisites
All students must be freshmen in the Mays Business School.

Required Materials
Required readings will be furnished by the mentors or placed on electronic reserve in the West Campus Library.

Grading Criteria
There are 100 possible points to be earned throughout this class. They will be awarded as follows:

57 pts Participation in and preparation for the large group lectures and small group activities:
   • 1.5 pts earned per class for attendance and participation (42 points possible)
   • 15 pts awarded for participation at the mentors’ discretion
28 pts Assignments worth 2 points each will be announced each week during class
15 pts A two-page final paper (topic will be announced in class)

Course grades will be assigned on the following basis:
A   90-100 points
B   80-89 points
C   70-79 points
D   60-69 points
F   0-59 points

Policies

1. Attendance:
   Attendance will be taken by mentors at each class meeting and reported to the Professor. Each unexcused absence from class will result in a deduction of 3 points from the student’s final grade. [Note: the student will not receive any participation points for that day. In addition, if an assignment is due, it cannot be made up and the student will lose 2 more points. Thus an unexcused absence may cause a grade penalty of up to 6.5 points.]

   Tardies: Arriving to class after 3:00 or leaving before 3:50 is considered a tardy. Once a freshman accumulates 2 tardies, it is the equivalent of an absence.

   Attendance at certain events outside of the scheduled class time is mandatory. An unexcused absence from these events will lower the student’s grade by 6 points.

   An absence is unexcused if it does not meet the requirements for a University-excused absence (see Student Rules, Part I, Section 7 for University-excused absence criteria -- http://student-rules.tamu.edu). If a student has a University-excused absence, he/she must furnish the required documentation (and any assignments due on the day(s) missed) to his/her mentor in the class following his/her return to school. Points will not be deducted for participation, assignments, or attendance.
Membership in the FBI is a privilege, not a right. Repeated absences or tardies will result in a student’s withdrawal from the course by the Professor.

2. Standards of Conduct:
   Business students are expected to behave in a professional manner at all times in the classroom. In the FBI course, we have many guest speakers who give freely of their valuable time to help our students be successful in college and in their careers. Appropriate classroom behavior includes the following: respectful attention to the speaker, punctual arrival for class, questions and applause for the speaker at the end of a presentation, and overall professionalism. Failure to adhere to these standards will result in a lowering of your grade or withdrawal from the course.

3. Honesty:
   An Aggie does not Lie, Cheat or Steal, or tolerate those who do.

4. Statement of Accommodating Students with Disabilities:
   The Americans with Disabilities Act (ADA) guarantees that all students with disabilities have a learning environment that provides accommodation of their disabilities. If you have a disability requiring an accommodation, please contact the department of student life services for students with disabilities (Koldus Building, room 126; 845-1637)
FBI Schedule – Section Alpha

Large Group classes are shown in bold and meet from 3:00 – 3:50 p.m. in WCBA 160. Small Group sessions are shown in normal type and meet from 3:00 - 3:50 p.m. at a location to be determined by mentors.

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/1</td>
<td>FIRST DAY EXTRAVAGANZA!</td>
</tr>
<tr>
<td>9/3</td>
<td>Code of Conduct &amp; Icebreakers</td>
</tr>
<tr>
<td>9/5</td>
<td>COVERT OPERATION ALPHA **</td>
</tr>
<tr>
<td>9/8</td>
<td>BSC &amp; Resumes</td>
</tr>
<tr>
<td>9/10</td>
<td>Organizations</td>
</tr>
<tr>
<td>9/15</td>
<td>Motivation &amp; Ethics</td>
</tr>
<tr>
<td>9/17</td>
<td>West Campus Orientation</td>
</tr>
<tr>
<td>9/22</td>
<td>True Colors</td>
</tr>
<tr>
<td>9/24</td>
<td>Time Management</td>
</tr>
<tr>
<td>9/29</td>
<td>Interviewing &amp; Fashion Show</td>
</tr>
<tr>
<td>10/1</td>
<td>Field Trip</td>
</tr>
<tr>
<td>10/6</td>
<td>Study Abroad, Honors, Fellows</td>
</tr>
<tr>
<td>10/8</td>
<td>Study Skills</td>
</tr>
<tr>
<td>10/8</td>
<td>OPAS Event - Sound of Music **</td>
</tr>
<tr>
<td>10/9</td>
<td>OPAS Event - Sound of Music **</td>
</tr>
<tr>
<td>10/13</td>
<td>Service</td>
</tr>
<tr>
<td>10/15</td>
<td>Field Trip</td>
</tr>
<tr>
<td>10/20</td>
<td>Golf Etiquette</td>
</tr>
<tr>
<td>10/22</td>
<td>Personal Finance</td>
</tr>
<tr>
<td>10/27</td>
<td>Ethics</td>
</tr>
<tr>
<td>10/29</td>
<td>Servant Leadership Discussion/Project</td>
</tr>
<tr>
<td>11/3</td>
<td>Majors &amp; Careers Seminar</td>
</tr>
<tr>
<td>11/4</td>
<td>Etiquette Dinner **</td>
</tr>
<tr>
<td>11/5</td>
<td>Field Trip</td>
</tr>
<tr>
<td>11/6</td>
<td>Etiquette Dinner **</td>
</tr>
<tr>
<td>11/10</td>
<td>Majors &amp; Careers Seminar</td>
</tr>
<tr>
<td>11/12</td>
<td>Registration</td>
</tr>
<tr>
<td>11/17</td>
<td>Bonfire</td>
</tr>
<tr>
<td>11/19</td>
<td>Work/Life Balance</td>
</tr>
<tr>
<td>11/24</td>
<td>Creativity &amp; Branding</td>
</tr>
<tr>
<td>11/26</td>
<td>No class</td>
</tr>
<tr>
<td>12/1</td>
<td>Current Issues</td>
</tr>
<tr>
<td>12/3</td>
<td>Wrap Up</td>
</tr>
<tr>
<td>FINAL</td>
<td>Reception at Association of Former Students</td>
</tr>
</tbody>
</table>

** Indicates a mandatory, out-of-class activity. In cases where there are two dates listed, students will be assigned to a specific date in class.
Texas A&M University
Departmental Request for a New Course
Undergraduate ♦ Graduate ♦ Professional
Submit original form and 25 copies. Attach a course syllabus to each.*

1. This request is submitted by the Department of Business

2. Course prefix, number and complete title BUAD 201 Sophomore Business Seminar

3. Course description (not more than 50 words) Sophomore seminar to encourage an appreciation for a diverse knowledge base for business majors. Weekly lectures feature guest faculty from departments throughout the university, required readings, team meetings and discussion groups.

4. Prerequisite(s) Sophomore standing in Mays Business School Cross-listed with

5. Is this a variable credit course? ☐ Yes ☑ No
   If yes, from ________ to ________

6. Is this a repeatable course ☐ Yes ☑ No
   If yes, this course may be taken ________ times.
   Will the course be repeated within the same semester/term? ☐ Yes ☑ No

7. Has this course been taught as ☑ Yes ☐ No
   If yes, how many times? 2
   Indicate the number of students enrolled for each academic period it was taught. 776.41

8. This course will be:
   a. Required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix | Course # | Title (exclude punctuation)
    B U A D 2 0 1 | S O P H O M O R E B U S I S E M I N A R

    | Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Academic Year | FICE Code |
    | 0 | 1 | 0 | 0 | 1 |

Do not complete shaded area.

Approval recommended by:

Head of Department 1/15/64
Chair, College Review Committee 1/20/60
Dean of College 1/20/60

Head of Department (if cross-listed course) Date
Dean of College Date

Submitted to Coordinating Board by:
Dean of College Date

Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.

OAR/AS-5/02
Sophomores Endeavoring to Expand Knowledge
SEEK Seminar – BUAD 289
Syllabus for Fall 2003

<table>
<thead>
<tr>
<th>Course Coordinator:</th>
<th>Name</th>
<th>Location</th>
<th>Phone</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Martha Louder</td>
<td>401S WCBA</td>
<td>845-1807</td>
<td><a href="mailto:m-louder@tamu.edu">m-louder@tamu.edu</a></td>
<td></td>
</tr>
</tbody>
</table>

Discussion leader:


Course Objectives:

The mission of the course is threefold:

- to provide sense of community for the sophomore year;
- to broaden the business student’s education, and produce more well-rounded students; and
- to introduce business majors to possible elective courses they would otherwise be unaware of.

The course will consist of a series of 13 weekly lectures from outstanding professors from the Texas A&M campus. Discussion leaders (DLs) selected by the coordinator will facilitate class discussion and perform certain administrative duties.

Enrollment will be limited to 100 second-year business majors in the Fall 02 semester. Selection will be based on an online pre-registration prior to the normal fall registration process. If there are more applicants than seats available, students will be selected in a lottery.

The class will meet Tuesday 3:55 to 5:10 in Wehner 113. There will be a one-hour lecture followed by a 15 minute discussion in small groups, facilitated by DLs. In the evening following the lecture, the guest speaker will convene a group of 8 to 10 students at a dinner hosted by the Mays College, either on or off-campus. Each student will be encouraged to attend at least one, but no more than three of the dinners.

A short reading will be furnished to each student in advance of the following week’s lecture. In lieu of a final examination, each student will be required to submit an end-of-term paper describing what he/she gained from the course.

Prerequisites: Second-year student in the Lowry Mays College of Business, 3.0 cumulative GPR.

Required Material: none
Grading Criteria: The grade received in this class is dependent on the following criteria:

(1) Participation in and preparation for the large group lectures and small group activities - 60 points. There will be required readings to be studied before classes and team meetings. Students are expected to contribute to discussions. DLs will evaluate each student's participation and preparation. In addition, each student will turn in an evaluation of each team member's participation and preparation. The two evaluations will be reviewed by the course coordinator, who will assign a grade.

(2) Required attendance in regularly scheduled classes - 140 points. Since the value from this course is partly dependent on participation, attendance is vital to your grade. Attendance will be taken by DLs at each class meeting. One free absence is permitted. Each unexcused absence thereafter will result in a deduction of 10 points. University-excused absences will not count against the grade (see Student Rules, Part I, Section 7 for University-excused absence criteria -- http://student-rules.tamu.edu). If you have a University-excused absence, you must furnish the required documentation to your DL the class period following the absence.

(3) Required attendance at out-of-class events - 10 points. Attendance at one dinner is required.

(4) Three short essays (40 points each) - 120 points.

(5) Final exam – 40 points.

Grades will be awarded as follows:

A 360 – 400 points
B 320 – 359
C 280 – 319
D 240 – 279
F below 240

Honesty: An Aggies does not Lie, Cheat or Steal, or tolerate those who do.

Statement of Accommodating Students with Disabilities: The Americans with Disabilities Act (ADA) guarantees that all students with disabilities have a learning environment that provides accommodation of their disabilities. If you have a disability requiring an accommodation, please contact the department of student life services for students with disabilities (Koldus Building, room 126; 845-1637)
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Department</th>
<th>Discussion Leaders Dinner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 2</td>
<td>First Day orientation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sept. 9</td>
<td>Christine Townsend</td>
<td>Agriculture Education</td>
<td>Ryan Martin</td>
</tr>
<tr>
<td>Sept. 16</td>
<td>David Reed</td>
<td>Horticultural Sciences</td>
<td>Patrick Lan</td>
</tr>
<tr>
<td>Sept. 23</td>
<td>Ludy Benjamin, Jr.</td>
<td>Psychology</td>
<td>Clark Bosslet</td>
</tr>
<tr>
<td>Sept. 30</td>
<td>Douglas Brooks</td>
<td>English</td>
<td>Lisa Moorman</td>
</tr>
<tr>
<td>Oct. 7</td>
<td>Vatche Tchakerian</td>
<td>Geoscience</td>
<td>Lee Chen</td>
</tr>
<tr>
<td>Oct. 14</td>
<td>John Hogg</td>
<td>Chemistry</td>
<td>Lindsay Malecha</td>
</tr>
<tr>
<td>Oct. 21</td>
<td>James Olson</td>
<td>Bush School of Gov. and Public Service</td>
<td>Jessica Morris</td>
</tr>
<tr>
<td>Oct. 28</td>
<td>Marvin Adams</td>
<td>Nuclear Engineering</td>
<td>Mike Tsang</td>
</tr>
<tr>
<td>Nov. 4</td>
<td>Stephanie Knight</td>
<td>Educational Psychology</td>
<td>Jared Slack</td>
</tr>
<tr>
<td>Nov. 11</td>
<td>Beth Tebeaux</td>
<td>English</td>
<td>Jason Duke</td>
</tr>
<tr>
<td>Nov. 18</td>
<td>TBA</td>
<td></td>
<td>Forrest Stewart</td>
</tr>
<tr>
<td>Nov. 25</td>
<td>No Class</td>
<td></td>
<td>Elizabeth May</td>
</tr>
<tr>
<td>Dec. 2</td>
<td>TBA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec. 9</td>
<td>No Class</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec. 16</td>
<td>Final Exam 1:00-3:00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a New Course
Undergraduate - Graduate - Professional

Submit original form and 25 copies. Attach a course syllabus to each.*

1. This request is submitted by the Department of _____________________________
   College of Engineering

2. Course prefix, number and complete title ENGR 483 - Energy and the Environment

3. Course description (not more than 50 words) Introduction to methods to generate electricity including actual
   overall costs, efficient use, conservation, political and ethical issues associated with energy use in the
   world.

4. Prerequisite(s) Junior or Senior level in engineering ____________  Cross-listed with NA
   Cross-listed courses require the signatures of both department heads.

5. Is this a variable credit course? ☐ Yes ☐ No  If yes, from ________ to ________

6. Is this a repeatable course? ☐ Yes ☐ No  If yes, this course may be taken _____ times. Will the course be
   repeated within the same semester/term? ☐ Yes ☐ No

7. Has this course been taught as a 489/689? ☐ Yes ☐ No  If yes, how many times? __________ Indicate the
   number of students enrolled for each academic period it was taught. '99-00, '00-01, '01-02, '02-03

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      NA
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
      All engineering B.S. students

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated
   with these departments. Attach approval letters.

10. Prefix Course # Title (exclude punctuation)
    ENGR 483 Energy & The Environment

    Lecture Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
    0 3 0 0 0 3 1 4 1 0 1 0 0 0 6 0 9 6 5 0 4 - 0 5 0 0 3 6 3 2

    Approval recommended by: __________________________ 12/18/03
    Head of Department Date

    Chair, College Review Committee __________________________ 12/18/03
    Date

    Dean of College __________________________ 12/18/03
    Date

    Submitted to Coordinating Board by: __________________________
    Dean of College Date

    Director of Academic Support Services __________________________
    Date

    Effective Date __________________________

* Attach a syllabus according to the guidelines on the Internet site oas.as.tamu.edu. To have this form reviewed, please send to
  Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.

OAR/AS-502
ENGR 483: ENERGY AND THE ENVIRONMENT (3-0-3)
John W. Poston, Sr.
Professor
Department of Nuclear Engineering

Summary: This course will introduce the upper-level engineering student to the variety of methods used to generate energy (specifically electrical energy) that are not normally considered in their undergraduate courses. In addition, the course will consider efficient use and conservation of energy, as well as the political and ethical aspects of energy consumption. Residential, commercial, and industrial uses will be discussed as well as the consumption of energy in transportation. The course is intended to be open to all engineering majors in the junior or senior year and to serve as a technical elective for these students. It assumes that the student has a good foundation in engineering fundamentals established through courses taken in the first two years or more of their undergraduate program.

Topics will include energy from fossil fuels (coal, oil, and natural gas), nuclear power (fission energy), solar energy, energy from biomass, geothermal, tidal and wind sources, as well as future sources of electrical power (fusion, breeder reactors, hydrogen, fuel cells, etc.). At the same time, it will include discussions crucial questions such as resource availability, energy consumption, energy policy and the development of third-world economies, air pollution, global warming, radioactive waste disposal, and the disposal of municipal solid waste.

The focus will be on energy generation and use in the United States but the impact of our activities globally and the approaches taken in other countries will be introduced where appropriate. Approaches to energy generation, storage, use and conservation in the U.S. will be contrasted with those taken in other nations. The European nations will be used as the primary models but the discussion will be extended to include countries in Asia such as China and India.

Class and small group discussions will be used to focus attention on certain aspects of overall energy generation and consumption scenario. Field trips to specific energy generation sites and/or facilities will be used to supplement the lectures when discussing some of the more unusual methods of energy generation and its incorporation into current building design.

Field trips are scheduled to a coal-fired electrical-generating plant, a nuclear electrical-generating plant, hydroelectric and pumped storage facilities, a wind turbine farm, a solar-electric facility, an open pit coal mine, and other technical and engineering sites of interest.
A textbook will be used as the foundation for the course. However, other readings will be required and discussed in class. A goal of this course is to stimulate discussions among the participants so that a diversity of views and opinions can be heard.


**Supplemental texts:**


The textbook is written on an elementary level for students with only minimal course work in this area. In the text, there are simple explanations with good diagrams and explanations of the basic systems. The text provides reasonably up-to-date data on generation, consumption, costs, etc. Several chapters will NOT be discussed and these will form the “presumed knowledge” of an engineering student. If you are uncertain and/or unfamiliar with the topics in these chapters, please review them on your own.

The text will not be covered in the sequential order of the chapters. The listing of chapters will be rearranged in a more reasonable order to build on the backgrounds of the students.

There will be a number of handouts for this course taken from the most recent literature (e.g., *Scientific American*, *American Scientist*, IEEE Spectrum, *Science*, etc.). These materials are intended to provide the student with the latest information available on a particular technology and to serve as the basis for class discussions. Students will be expected to have read these before coming to class and will be expected to participate in the discussions.

Class grade will be based on in-class participation as well as other, more traditional forms of evaluation. It is anticipated that there will be two tests and a final examination.

**Grading:**

- Each test: 25%
- Final examination: 30%
- Class participation: 20%
The probable subject sequence is shown below.

**Probable Sequence:**

Chapter 1  
Introduction  
Energy Resource Availability and Projections  
Economic and Environmental Considerations

Chapter 7  
Energy from Fossil Fuels  
Coal  
Oil  
Natural Gas  
Other Sources of Fossil Fuels

Chapter 14  
Nuclear Power: Fission  
The U.S. Nuclear Electric Industry  
The European View of Nuclear Power

Chapter 12  
Electricity from Solar Energy  
Wind Energy

Chapter 18  
Tapping the Earth's Heat: Geothermal Energy

Chapter 17  
Biomass: From Plants to Garbage  
Fuel Cells

Chapter 16  
Future Nuclear Alternatives: Fusion and Breeder Reactors

Chapter 6  
Solar Energy: Characteristics and Heating

Chapter 8  
Air Pollution and Energy use

Chapter 9  
Global Warming and Waste Heat

Chapter 5  
Home Energy Conservation and Heat-Transfer Control  
The Politics of Energy Consumption  
Ethics of Energy Consumption  
Other subjects as appropriate

Chapters 2, 3, 4, 10 and 11 are “presumed knowledge” for an engineer.

Engineering science – 2 credits  
Engineering design – 1 credit

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.
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and 25 copies. Attach a course syllabus to each.*

1. This request is submitted by the Department of History
2. Course prefix, number and complete title HIST 347 - Rise of Islam, 600-1258

3. Course description (not more than 50 words) Introduction to Islamic civilization from the rise of Islam to the Mongol conquests; examination of pre-Islamic poetry, the Qur'an, early Islamic laws on prayer, the ethical conventions of jihad, the lives of Muslim women, and the relation of Islam to Judaism and Christianity.

4. Prerequisite(s) Junior or Senior Classification Cross-listed with RELS 347

5. Is this a variable credit course? □ Yes ☑ No If yes, from _____ to ______

6. Is this a repeatable course? □ Yes ☑ No If yes, this course may be taken _____ times. Will the course be repeated within the same semester/term? □ Yes ☑ No

7. Has this course been taught as a 489/689? □ Yes ☑ No If yes, how many times? 1 Indicate the number of students enrolled for each academic period it was taught. 17 students

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   Undergraduate General Academic

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix Course # Title (exclude punctuation)
    HIST 347 RISE OF ISLAM 600 - 1258

    | Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
    |-------|-----|-----|-----------------------------|-------------|------------|-----------|
    | 0     | 3   | 0   | 035401010001                | 1145004     | 05         | 003632     |

    Do not complete shaded area.

Approval recommended by:

Walter F. Beuenger 11/5/03
Head of Department

Chair, College Review Committee Date

Head of Department (if cross-listed course) 11/6/03

Dean of College Date

Submitted to Coordinating Board by:

Dean of College Date

Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site oar.as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.

OAR/AS-502
Spring 2003
Professor Leor Halevi

History 347 / Religious Studies 347

Class Meetings: TR 3:55-5:10, HALB 104
Office: History Building, 103D
Phone: 845-7151
E-Mail: leorhalevi@hotmail.com
Office Hours: Thursday 9:30-10:30, 5:15-6:15

Purpose
This course is an introduction to Islamic civilization from the rise of Islam to the
Mongol conquests of Baghdad. Every week offers primary sources in translation,
which should stimulate dialogue and debate. We will examine pre-Islamic
poetry, the Qur'an, early Islamic laws on prayer, the ethical conventions of jihad,
the lives of Muslim women, and the relation of Islam to Christians and Jews.

Required Readings:

Please expect about 150 pages of reading per week, with the number varying
depending on the difficulty of the material.

* Usama ibn Munqidh. An Arab-Syrian Gentleman and Warrior in the Period of the

Sourcebook, a xerox packet available at Notes-N-Quotes on 701 University Dr.

Course Requirements:

Breakdown of Grades:
   Class Participation: 20%
   Midterm Exam: 20%
   Final Paper: 40%
   Final Exam: 20%

Attendance, short response papers, and contributions to class discussion make up
your class participation grade. Failure to attend class involves a penalty, as
specified below. Short response papers count for 80% of your class participation
grade. The remaining 20% will be based on the quality and frequency of your comments in class.

**Attendance** is expected and involves a major part of the course grade. Please come well prepared, and ready to discuss the readings. You will find class infinitely more worthwhile, enjoyable and rewarding if you come and participate. Attendance is factored into your class participation grade, which will drop by one full grade (i.e., from 85% to 75%) for every absence beyond three unexcused absences. University excused absences, including holy days, will not affect your grade.

**Short Response Papers**, 100 to 300 words each, are due every Thursday we meet at the beginning of class. These short papers must show that you have read and thought about the weekly readings *in advance* of our discussion. In these response papers, you should take an informed position. Present cogently an interesting argument or a personal opinion in relation to the primary sources. Every response paper must have a thesis or argument **underlined**. Late response papers will not be accepted. Of 14 response papers, you must hand in 12. Any response papers you miss of these 12 will be averaged in as a zero. If you hand in more than 12, I will drop your lowest grades from the average.

The **Midterm Exam**, on Thursday February 27, will be a multiple-choice test consisting of 50 questions maximum. The questions—covering key names, dates, and concepts—will be derived from your textbook, lectures, and the primary sources. A review or study-guide will not be provided in advance. For this reason, it is essential you take good notes during the course of the semester.

The **Final Exam**, on Tuesday May 6, will follow the same format as the midterm. It will not be cumulative. Rather it will include only material covered since the midterm exam.

The **Final Paper**, 10 pages long, is due on Thursday, April 17. Over the course of the semester, a number of steps need to be taken before submission of the final, revised paper. On Thursday February 6, submit a paper topic, including a brief bibliography; identify the sources you will be reading and define the questions you will be trying to answer. On Thursday March 27 submit a detailed outline, including a tentative thesis statement. The preliminary submissions leading toward the final paper will not be graded. However, you will automatically earn 5% points if you deliver on time all of these preliminary assignments. All papers must include a thesis (**underlined**), an introduction and a conclusion.

The **grade scale** for this course is rather straightforward: 90-100 is an A, 80-89 a B, 70-79 a C, 60-69 a D, 59 and below an F. Here is a sample calculation of grades. A student who handed in 11 out of 12 response papers with an average grade of 86 would have effectively $86 \times \frac{11}{12} = 78.8$ as the average. If this student had one unexcused absence beyond the three (-10) and 90 in comments, his or her grade for class participation would be: $78.8 \times 80\% -10 + 90 \times 20\% = 71.1$. Let us say, then, that this student's grade was 76 on the midterm exam, 87 on the final paper, and 85 on the final exam. The final grade would be: $71.1 \times 20\% + 76 \times 20\% + 87 \times 40\% + 85 \times 20\% = 81.2$ or a B.

Halevi, Classical Islam, 2
Please note that, in the response papers and in the final paper, you need to formulate your own arguments in your own words. If you rely on the scholarship of another person, acknowledge it appropriately. The Texas A&M University Student Rules includes a section on “Scholastic Dishonesty,” with which you should be familiar (see http://student-rules.tamu.edu/rules20.htm). These Rules define plagiarism as “failing to credit sources used in a work product in an attempt to pass off the work as one’s own” and “attempting to receive credit for work performed by another, including papers obtained in whole or in part from individuals or other sources.” Do not commit plagiarism.

Note: “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 have a disability requiring special accommodation, please contact the office of Services for Students with Disabilities (room 126 of the Koldus Building, phone number 845-1637) and ask this office to notify me of your case.

I. Al-Jahiliyya, “The Age of Ignorance” (1/14, 1/16)
Textbook, introduction and ch. 1
Sourcebook, no. 1
Michael Sells, Desert Tracings; Six Classical Arabian Odes

II. Muhammad and the Qur'an (1/21, 1/23)
Textbook, ch. 2
Sourcebook nos. 2-4
The Koran, Sūras 1-3, 9, 17-21, 30, 34, 67-114

III. The Arab Conquests and the Ethics of Jihad (1/28, 1/30)
Textbook, ch. 3
Sourcebook, nos. 5-7

IV. The Caliphate in Transition (2/4, 2/6)
Textbook, chs. 4 and 5
Sourcebook, nos. 8-12

Thursday February 6 Paper Topic Due

V. The Development of a Sacred Law (2/11, 2/13)
Sourcebook no. 13
A Manual of Hadith, sections 3-5, 8-9, 15-18, 22-31

VI. Christians and Jews in the House of Islam (2/18, 2/20)
Sourcebook nos. 14-23
VII. Gender, Sexuality and the Early Muslim Family (2/25, 2/27)
Sourcebook nos. 24-25
The Koran, Sūras 4, 60, 65
A Manual of Hadith, sections 20-21

Thursday February 27  Midterm Exam!

VIII. The Slave Revolt and Political Fragmentation (3/4, 3/6)
Textbook, ch. 6.
Sourcebook, nos. 26-31

Spring Break!

IX. Moorish Spain (3/18, 3/21)
Textbook, ch. 7
Sourcebook, nos. 32-33

X. Science, Philosophy & the Rise of the College (3/25, 3/27)
Sourcebook, nos. 34-35

Thursday March 27  Outline & Thesis Statement Due

XI. Heresy, Orthodoxy and Sufism (4/1, 4/3)
Fadiman & Frager, eds. Essential Sufism
Sourcebook, no. 36

XII. Islam and the West in the Age of the Crusades (4/8, 4/10)
Usama ibn Munqidh, An Arab-Syrian Gentleman and Warrior in the Period of the Crusades

XIII. The Mongol Invasions & the Question of Decline (4/15, 4/17)
Textbook, chs. 9 and 10
Sourcebook, no. 37 and 37B

Thursday April 17  Final Paper Due!

XIV. Islam in World History (4/22, 4/24)
Sourcebook, nos. 38-42

Tuesday May 6, 1-3 p.m.  Final Exam!
Sourcebook Index & Bibliography

Week I

Week II


Week III


Week IV


**Week V**

**Week VI**


Week VII


Week VIII


Week IX


Week X


Week XI
Week XII

Week XIII


Week XIV


Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

Submit original form and 25 copies. Attach a course syllabus to each.*

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

2. Course prefix, number and complete title: NVSC - 204 - Naval Sea Power and Maritime Affairs

3. Course description (not more than 50 words): A survey of naval history emphasizing the major developments in naval strategy, tactics, technology, and the effects of political climate. More importantly, significant naval engagements and historic figures are discussed. In addition, the course includes an introduction to the theory of war, Mahan's naval strategy, the role of maritime commerce and the importance of a maritime policy to maintain global stability.

4. Prerequisite(s): NVSC 203 Cross-listed with Cross-listed courses require the signatures of both department heads.

5. Is this a variable credit course? □ Yes □ No If yes, from _______ to _______

6. Is this a repeatable course? □ Yes □ No If yes, this course may be taken ______ times. Will the course be repeated within the same semester/term? □ Yes □ No

7. Has this course been taught as a 489/689? □ Yes □ No If yes, how many times? _____ Once Indicate the number of students enrolled for each academic period it was taught. Approx. 85-95 students

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      Enrolled in the Naval ROTC Program at Texas A&M - Corps of Cadets
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
      n/a

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix | Course # | Title (exclude punctuation) | Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code | Level
      NVSC | 204 | Naval Sea Power | 120 | 203 | 28 | 04 | 1 | 00 | 09 | 04 | 00 | 07 | 04 | 01 | 03 | 66

Do not complete shaded area.

Approval recommended by:

Head of Department [Signature] [Date]
Chair, College Review Committee [Signature] [Date]

Head of Department (if cross-listed course) [Signature] [Date]
Dean of College [Signature] [Date]

Submitted to Coordinating Board by:

Director of Academic Support Services [Signature] [Date]
Dean of College [Signature] [Date]

Effective Date

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.
September 20, 2002

Karan L. Watson
Dean of Faculties & Associate Provost
Texas A&M University
Rudder Tower, Sixth Floor
College Station, TX 77843

Dear Professor Watson:

It has been brought to my attention that the Naval Science Department has formally requested a new Naval Science course titled, "Sea Power and Maritime Affairs." This course fulfills their training requirements for commissioning future naval officers.

Approval of this course causes no problems for the Department of History—especially since the course will only be taught in the spring semester and is intended for naval science students. Please let me know if I can provide any further information regarding the approval of this course.

Sincerely,

Walter L. Buenger
Professor & Interim Head of Department

Cc: Naval Science Department
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and 25 copies. Attach a course syllabus to each.*

1. This request is submitted by the Department of Religious Studies
2. Course prefix, number and complete title RELS 347 - Rise of Islam, 600-1258

3. Course description (not more than 50 words) Introduction to Islamic civilization from the rise of Islam to the Mongol conquests; examination of pre-Islamic poetry, the Qur'an, early Islamic laws on prayer, the ethical conventions of jihad, the lives of Muslim women, and the relation of Islam to Judaism and Christianity.

4. Prerequisite(s) Junior or Senior Classification Cross-listed with HIST 347

5. Is this a variable credit course? ☐ Yes ☐ No If yes, from _______ to _______

6. Is this a repeatable course? ☐ Yes ☐ No If yes, this course may be taken _____ times. Will the course be repeated within the same semester/term? ☐ Yes ☐ No

7. Has this course been taught as a 489/689? ☐ Yes ☐ No If yes, how many times? _______ Indicate the number of students enrolled for each academic period it was taught. 17 students

8. This course will be:
a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

Undergraduate General Academic

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix Course # Title (exclude punctuation)
    RELS 347 RISE OF ISLAM 600-1258

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>SCH</th>
<th>Subject Matter Content Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 3 0 0 3 5 4 0 1 0 1 0 0 0 1 1 7 3 5 0 4 - 0 5</td>
<td>0 0 3 6 3 2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Do not complete shaded area.

Approval recommended by:

[Signature] 11/11/03
Head of Department

[Signature] 11/5/03
Walter S. Bremer
Head of Department (if cross-listed course)

[Signature] 11/5/03
Chair, College Review Committee

[Signature] 11/5/03
Dean of College

Submitted to Coordinating Board by:

[Signature] 11/5/03
Dean of College

[Signature] 11/5/03
Director of Academic Support Services

Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site our-ac.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.
Spring 2003
Professor Leor Halevi

History 347 / Religious Studies 347

Class Meetings: TR 3:55-5:10 HALB 104
Office: History Building, 103D
Phone: 845-7151
E-Mail: leorhalevi@hotmail.com
Office Hours: Thursday 9:30-10:30, 5:15-6:15

Purpose
This course is an introduction to Islamic civilization from the rise of Islam to the
Mongol conquests of Baghdad. Every week offers primary sources in translation,
which should stimulate dialogue and debate. We will examine pre-Islamic
poetry, the Qur'an, early Islamic laws on prayer, the ethical conventions of jihad,
the lives of Muslim women, and the relation of Islam to Christians and Jews.

Required Readings:

Please expect about 150 pages of reading per week, with the number varying
depending on the difficulty of the material.

* Usama ibn Munqidh. An Arab-Syrian Gentleman and Warrior in the Period of the

Sourcebook, a xerox packet available at Notes-N-Quotes on 701 University Dr.

Course Requirements:

Breakdown of Grades:
Class Participation: 20%
Midterm Exam: 20%
Final Paper: 40%
Final Exam: 20%

Attendance, short response papers, and contributions to class discussion make
up your class participation grade. Failure to attend class involves a penalty, as
specified below. Short response papers count for 80% of your class participation
grade. The remaining 20% will be based on the quality and frequency of your comments in class.

**Attendance** is expected and involves a major part of the course grade. Please come well prepared, and ready to discuss the readings. You will find class infinitely more worthwhile, enjoyable and rewarding if you come and participate. Attendance is factored into your class participation grade, which will drop by one full grade (i.e., from 85% to 75%) for every absence beyond three unexcused absences. University excused absences, including holy days, will not affect your grade.

**Short Response Papers**, 100 to 300 words each, are due every Thursday we meet at the beginning of class. These short papers must show that you have read and thought about the weekly readings in advance of our discussion. In these response papers, you should take an informed position. Present cogently an interesting argument or a personal opinion in relation to the primary sources. Every response paper must have a thesis or argument underlined. Late response papers will not be accepted. Of 14 response papers, you must hand in 12. Any response papers you miss of these 12 will be averaged in as a zero. If you hand in more than 12, I will drop your lowest grades from the average.

The **Midterm Exam**, on Thursday February 27, will be a multiple-choice test consisting of 50 questions maximum. The questions—covering key names, dates, and concepts—will be derived from your textbook, lectures, and the primary sources. A review or study-guide will not be provided in advance. For this reason, it is essential you take good notes during the course of the semester.

The **Final Exam**, on Tuesday May 6, will follow the same format as the midterm. It will not be cumulative. Rather it will include only material covered since the midterm exam.

The **Final Paper**, 10 pages long, is due on **Thursday, April 17**. Over the course of the semester, a number of steps need to be taken before submission of the final, revised paper. On Thursday February 6, submit a paper topic, including a brief bibliography; identify the sources you will be reading and define the questions you will be trying to answer. On Thursday March 27 submit a detailed outline, including a tentative thesis statement. The preliminary submissions leading toward the final paper will not be graded. However, you will automatically earn 5% points if you deliver on time all of these preliminary assignments. All papers must include a thesis (underlined), an introduction and a conclusion.

The **grade scale** for this course is rather straightforward: 90-100 is an A, 80-89 a B, 70-79 a C, 60-69 a D, 59 and below an F. Here is a sample calculation of grades. A student who handed in 11 out of 12 response papers with an average grade of 86 would have effectively 86*11/12=78.8 as the average. If this student had one unexcused absence beyond the three (-10) and 90 in comments, his or her grade for class participation would be: 78.8*80% -10+90*20%=71.1. Let us say, then, that this student's grade was 76 on the midterm exam, 87 on the final paper, and 85 on the final exam. The final grade would be: 71.1*20% + 76*20% + 87*40% + 85*20% = 81.2 or a B.
Please note that, in the response papers and in the final paper, you need to formulate your own arguments in your own words. If you rely on the scholarship of another person, acknowledge it appropriately. The Texas A&M University Student Rules includes a section on "Scholastic Dishonesty," with which you should be familiar (see http://student-rules.tamu.edu/rules20.htm). These Rules define plagiarism as "failing to credit sources used in a work product in an attempt to pass off the work as one's own" and "attempting to receive credit for work performed by another, including papers obtained in whole or in part from individuals or other sources." **Do not commit plagiarism.**

Note: “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 have a disability requiring special accommodation, please contact the office of Services for Students with Disabilities (room 126 of the Koldus Building, phone number 845-1637) and ask this office to notify me of your case.

I. **Al-Jahiliyya, “The Age of Ignorance” (1/14, 1/16)**
   Textbook, introduction and ch. 1
   Sourcebook, no. 1
   Michael Sells, *Desert Tracings: Six Classical Arabian Odes*

II. **Muhammad and the Qur'an (1/21, 1/23)**
    Textbook, ch. 2
    Sourcebook nos. 2-4
    *The Koran*, Sūras 1-3, 9, 17-21, 30, 34, 67-114

III. **The Arab Conquests and the Ethics of Jihad (1/28, 1/30)**
    Textbook, ch. 3
    Sourcebook, nos. 5-7

IV. **The Caliphate in Transition (2/4, 2/6)**
    Textbook, chs. 4 and 5
    Sourcebook, nos. 8-12

*Thursday February 6*  
*Paper Topic Due*

V. **The Development of a Sacred Law (2/11, 2/13)**
   Sourcebook no. 13
   *A Manual of Hadith*, sections 3-5, 8-9, 15-18, 22-31

VI. **Christians and Jews in the House of Islam (2/18, 2/20)**
    Sourcebook rios. 14-23

Halevi, *Classical Islam*, 3
VII. Gender, Sexuality and the Early Muslim Family (2/25, 2/27)  
Sourcebook nos. 24-25  
The Koran, Sūras 4, 60, 65  
A Manual of Hadith, sections 20-21  

Thursday February 27        Midterm Exam!  

VIII. The Slave Revolt and Political Fragmentation (3/4, 3/6)  
Textbook, ch. 6.  
Sourcebook, nos. 26-31  

Spring Break!  

IX. Moorish Spain (3/18, 3/21)  
Textbook, ch. 7  
Sourcebook, nos. 32-33  

X. Science, Philosophy & the Rise of the College (3/25, 3/27)  
Sourcebook, nos. 34-35  

Thursday March 27        Outline & Thesis Statement Due  

XI. Heresy, Orthodoxy and Sufism (4/1, 4/3)  
Fadiman & Frager, eds. Essential Sufism  
Sourcebook, no. 36  

XII. Islam and the West in the Age of the Crusades (4/8, 4/10)  
Usama ibn Munqidh, An Arab-Syrian Gentleman and Warrior in the Period of the Crusades  

XIII. The Mongol Invasions & the Question of Decline (4/15, 4/17)  
Textbook, chs. 9 and 10  
Sourcebook, no. 37 and 37B  

Thursday April 17        Final Paper Due!  

XIV. Islam in World History (4/22, 4/24)  
Sourcebook, nos. 38-42  

Tuesday May 6, 1-3 p.m.        Final Exam!  

Halevi, Classical Islam, 4
Sourcebook Index & Bibliography

Week I

Week II


Week III


Week IV


Halevi, Classical Islam, 5

Week V

Week VI


Week VII


Week VIII


Week IX


Week X


Week XI
Week XII

Week XIII


Week XIV


Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of ____________
   Engineering Technology & Industrial Distribution

2. Course prefix, number and complete title of course: ENTC 215-Introduction to Telecommunications

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   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:

5. Complete proposed course title and proposed course description (not to exceed 50 words):

6. a) As currently in course inventory:
   Prefix | Course # | Title (exclude punctuation)  
   ------- | -------- | ---------------------------- 
   ENTC 215 INTRO TO TELECOM
   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
   0 3 0 0 0 3 . . . .
   Do not complete shaded area.
   b) Changed to:
   Prefix | Course # | Title (exclude punctuation)  
   ------- | -------- | ---------------------------- 
   ENTC 215 INTRO TO TELECOM
   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 3 0 2 0 4 . . . .
   Level

   Approval recommended by:
   Head of Department: __________ Date: __________
   Chair, College Review Committee: __________ Date: __________
   Dean of College: __________ Date: __________
   Submitted to Coordinating Board by:
   Dean of College: __________ Date: __________
   Director of Academic Support Services: __________ Date: __________

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.

C1 - tabled 1/9/04
TEXAS A&M UNIVERSITY
Department of Engineering Technology & Industrial Distribution

Introduction to Telecommunications
ENTC 215:
Full Syllabus
(Revised 9/23/2003)

Number of Credits: 4, Number of Class Hours per Week: 3, Number of Laboratory Hours per Week: 2

COURSE DESCRIPTION:
Survey of the telephone industry; analysis of modulations and multiplexing (FDM, TDM); introduction to transmission media (cable pairs, radio, satellites, and fiber optics) and to switching (multistage, space, and time-division). Overview of the major services offered by several common carriers.

PREREQUISITE:
For EET/TET Majors, Physics 208 or ENTC 211. For others, Physics 202 or 208.

REQUIRED TEXTS:


INSTRUCTOR:
Name: Dr. John L. Fike, P.E.
Office: Fermier Hall, Room 111
Hours: Wednesday and Friday, 2:00-4:00, or by appointment
Phone: 845-5966; Fax: 847-9396
E-mail: j-fike@tamu.edu

PROCEDURE:
The class will consist of lectures by the instructor, supplemented by videotapes/DVDs and web sites. A demonstration laboratory is also required. The student is responsible for all material covered in the class and laboratory lectures, and for all material contained in the text, notes, videotapes, DVDs, handouts, and web sites. The final exam is comprehensive, covering all of the above. It is the responsibility of the student to stay current. Homework and class participation assignments are also required.

ATTENDANCE:
Class and laboratory attendance is mandatory, and roll will be taken at the beginning of each lecture. Students are expected to attend all lectures and labs except for excused University absences (see University Regulations). In such cases, the student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for absence.

STUDENT EVALUATION:
Students will be evaluated on the basis of individual assignments and examinations. A "curve" may be utilized in calculating the grade for each exam. Course grades will not be curved or rounded upward, and will be calculated using the following weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Questions &amp; Quizzes</td>
<td>5%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>15%</td>
</tr>
<tr>
<td>Participation</td>
<td>5%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>
EXAMS:
There will be three: two regular exams and a comprehensive final. There may also be unannounced quizzes. If these occur, they will normally happen at the beginning of the class. Exams will be closed book, closed notes, no formula sheets permitted, and will be proctored. Exams will require a Scantron form (0-101607-TAMU or exact equivalent) and a #2 pencil.

PRESENTATION:
Students are expected to be able to read, write, spell, and punctuate the English language in accordance with good business practice. One point will be deducted from the grade (exam, quiz, or homework) for each misspelled word, or instance of incorrect grammar or usage.

LIST SERVER:
Communication with the class will be through e-mail via the campus list server; its use is required in this course. To subscribe to the class list, send e-mail to listserv@listserv.tamu.edu. Leave the subject space blank, and type the following in the message part of the email:

```
subscribe entc215 FirstName LastName
```

The list server will capture the sender’s email address from the email header. A confirmation message will then be sent. *Save this message; it provides instructions on posting messages and unsubscribing at the end of the semester.*

As required by TAMU Student Rules, students should also set up their neo account, and check it periodically. Neo accounts may be checked or activated at neo.tamu.edu.

FTP SERVER:
Some course materials, including this syllabus, old exams, etc. will be posted in the ENTC215 directory on the ETID ftp server. It may be accessed through http://etidweb. The ftp server should be checked periodically for new postings.

WebCT:
The TAMU WebCT system will be used in this course. Student grades, attendance, course schedules, and handouts will be available on-line, at any time and to any web-enabled computer, via this system. The student’s neo logon and password are used for WebCT.

The availability of the WebCT page for this course will be announced via the list server.

ACADEMIC HONESTY:
The Texas A&M Honor Code will apply in this class. Students may study in groups; however, individual effort is required on anything turned in. Plagiarism of any kind is unacceptable, and will result in a failing grade in the course. Cheating on exams will, of course, have grave consequences. Exams will include an Honor Code Statement; failure to sign this statement may result in penalties and/or the exam not being graded.

AMERICANS WITH DISABILITIES ACT:
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 that you have disability requiring accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in room 126 of the Koldus Building, or call 845-1637.
Topical Outline

Week 1
- Introduction & Overview
- The PSTN

Week 2
- Fundamental Concepts
- Industry Structure

Week 3
- Interoperability, & Standards
- The North American Numbering Plan

Week 4
- Transmission Media
- Digital Voice

Week 5
- Data Communications
- Characters & Codes

Week 6
- Serial Interfaces
- Network Topologies

Week 7
- Protocols

Week 8
- The OSI Model

Week 9
- Circuit Switching Vs Packet Switching
- Error Detection & Correction

Week 10
- Local-Area Networks

Week 11
- The Internet

Week 12
- Addressing & Domains

Week 13
- TCP/IP

Week 14
- The Worldwide Web
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of Engineering Technology & Industrial Distribution

2. Course prefix, number and complete title of course: ENTC 383—Manufacturing Information Systems

3. Change requested:
   a) Prerequisite(s): From ____________________________ To ____________________________
   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: ____________________________

   ____________________________

5. Complete proposed course title and proposed course description (not to exceed 50 words): ____________________________

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTC</td>
<td>383</td>
<td>INFORMATION SYSTEMS</td>
</tr>
</tbody>
</table>

   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
   0 2 0 3 0 3 . . . . . . . . . . . . . . . 0 0 3 6 3 2

   Do not complete shaded area.

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTC</td>
<td>383</td>
<td>INFORMATION SYSTEMS</td>
</tr>
</tbody>
</table>

   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 3 0 3 0 4 . . . . . . . . . . . . . . . 0 0 3 6 3 2

   Approval recommended by:
   Head of Department ____________________________ Date 11/23/03
   Chair, College Review Committee ____________________________ Date 12/18/03
   Dean of College ____________________________ Date

   Submitted to Coordinating Board by: ____________________________ Date

   Director of Academic Support Services ____________________________ Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.

GARAS-502
MANUFACTURING INFORMATION SYSTEMS

ENTC 383
Fall, 2003
Phone Number: 845-4985
Email Address: hsieh@tamu.edu

Instructor: Dr. Sheng-Jen (“Tony”) Hsieh
Office: Thompson Hall 223
Office Hours: Tues. & Thurs. 9 a.m. – 12:00 p.m.
Web Site: http://etidweb.tamu.edu/hsieh

TEXTBOOKS
Langewarter, Gary A., Enterprise Resources Planning and Beyond: Integrating Your Entire Organization,
St. Lucie Press, September 1999

REFERENCES
2. Prague, Cary N. and Michael R. Irwin, Microsoft Access 97 Bible, IDG Books, 1999

COURSE OBJECTIVES
Students will learn to use information technology for manufacturing enterprise applications. The
technology covered will include programming language – Visual Basic, databases, web technology, and
enterprise resource planning. Prerequisite: ENGR 111 and ENTC 380 or approval of instructor.

ATTENDANCE POLICY, MAKE-UP EXAMS AND QUizzes
Students are expected to attend all lectures and labs except for excused University absences (see
University Regulations). In such cases, the student is responsible for providing satisfactory evidence to
the instructor to substantiate the reason for the absence. Only under this circumstance will any individual
be allowed to make up an exam or quiz. You will lose 10 points of your attendance grade for each
class you miss!!! Lab reports are due one week from the assigned date, at the beginning of the next
lab. Late lab reports will not be accepted for grading.

Your course grade will be calculated as follows:
Homework, Quizzes, and Presentation 15%  Monthly Exams (2): T1: 15%  Attendance 5%
Lab Assignments 20%  T2: 30% (Project Examination)
Final Exam 15%

ACADEMIC INTEGRITY
Academic integrity is of uppermost importance in your work. Each student must do his/her own work and
give appropriate credit when the ideas or material of others is used. The handouts used in this course are
copyrighted. By “handouts,” I mean all material generated for this class, which include but are not limited
to syllabi, quizzes, exams, laboratory problems, in-class materials, and review sheets. Because these
materials are copyrighted, you do not have the right to copy handouts, unless I expressly grant
permission. All students have the responsibility to be fully acquainted with and to comply with University
Regulations. Every student should be familiar with the content of University Regulations regarding
academic dishonesty.

AMERICANS WITH DISABILITIES ACT POLICY STATEMENT
The Americans with Disabilities (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 that you have disability requiring
accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in
room 126 of the Koldus Building, or call 845-1637.
# ENTC 383 Class and Lab Schedule

NOTE: Topics or labs may not be covered exactly on the date shown and other relevant topics or labs may be covered if time allows. You are responsible for attending class to obtain up-to-date information on topics covered and examination dates.

<table>
<thead>
<tr>
<th>Week*</th>
<th>Lecture</th>
<th>Reading</th>
<th>Lab</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Introduction to Enterprise Resources Planning</td>
<td>Langerwalter, C1</td>
<td>Basic Programming Concepts and Visual Basic Environment</td>
<td>Harriger, C1</td>
</tr>
<tr>
<td>2.</td>
<td>Executive Direction and Support</td>
<td>Langerwalter, C2</td>
<td>Data Types, Variables, and Assignment Statement</td>
<td>Harriger, C2</td>
</tr>
<tr>
<td>3.</td>
<td>Customer Integration (I)</td>
<td>Langerwalter, C3</td>
<td>Arithmetic Operators and Scope</td>
<td>Harriger, C3</td>
</tr>
<tr>
<td>4. (T1)</td>
<td>Customer Integration (II)</td>
<td>Langerwalter, C3</td>
<td>Simplifying Programming Through Modularity</td>
<td>Harriger, C4</td>
</tr>
<tr>
<td>5.</td>
<td>Engineering Integration</td>
<td>Langerwalter, C4</td>
<td>Decisions and Data Validation</td>
<td>Harriger, C5</td>
</tr>
<tr>
<td>6.</td>
<td>Manufacturing Integration (I)</td>
<td>Langerwalter, C5</td>
<td>The Case Structure and Error Handling</td>
<td>Harriger, C6</td>
</tr>
<tr>
<td>7.</td>
<td>Manufacturing Integration (II)</td>
<td>Langerwalter, C5</td>
<td>Repetitive Structures</td>
<td>Harriger, C7</td>
</tr>
<tr>
<td>8. (T2)</td>
<td>Support Services Integration</td>
<td>Langerwalter, C6</td>
<td>Arrays, Searching, and Sorting</td>
<td>Harriger, C8</td>
</tr>
<tr>
<td>9.</td>
<td>Technical Considerations</td>
<td>Langerwalter, C9</td>
<td>Sequential Files</td>
<td>Harriger, C9</td>
</tr>
<tr>
<td>10.</td>
<td>System Selection</td>
<td>Langerwalter, C9</td>
<td>Creating Database Tables</td>
<td>Access #1</td>
</tr>
<tr>
<td>11.</td>
<td>Other Topics: Multi-Plant, Multi-Division, Multinational Industries</td>
<td>Langerwalter, C10</td>
<td>Creating and Using Forms</td>
<td>Access #2</td>
</tr>
<tr>
<td>12.</td>
<td>Successful Implementation</td>
<td>Langerwalter, C10</td>
<td>Understanding and Using Simple Queries</td>
<td>Access #3</td>
</tr>
<tr>
<td>13.</td>
<td>The People Side of TEI</td>
<td>Langerwalter, C11</td>
<td>Working with Forms</td>
<td>Access #4</td>
</tr>
<tr>
<td>14.</td>
<td>Case Study – VMI and PDM</td>
<td>Handout</td>
<td>Web-based Ordering and Production System</td>
<td>MS Front Page</td>
</tr>
<tr>
<td>15.</td>
<td>Review and Final Exam</td>
<td>Handout</td>
<td>Case Study</td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of ________________
   Engineering Technology & Industrial Distribution
   Should be 425

2. Course prefix, number and complete title of course: ENTC 315 - Local and Metropolitan Area Networks

3. Change requested:
   a) Prerequisite(s): From ________________ To ________________
   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:
   ________________
   ________________
   ________________
   ________________
   ________________

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   ________________
   ________________
   ________________
   ________________
   ________________

6. a) As currently in course inventory:
   Prefix Course # Title (exclude punctuation)
   ENTC 425 LOCAL METRO AREA NETWORK
   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
   0 3 0 2 0 4
   Do not complete shaded area.

   b) Changed to:
   Prefix Course # Title (exclude punctuation)
   ENTC 315 LOCAL METRO AREA NETWORK
   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 3 0 2 0 4
   Do not complete shaded area.

   Approval recommended by:
   ____________________________ Date
   Head of Department
   ____________________________ Date
   Head of Department (if cross-listed course)
   ____________________________ Date
   Dean of College
   ____________________________ Date
   Submitted to Coordinating Board by:
   ____________________________ Date
   Dean of College
   ____________________________ Date
   Director of Academic Support Services
   ____________________________ Date
   Effective Date

* Attach a syllabus according to the guidelines on the Internet site oar-as.tamu.edu. To have this form reviewed, please send to Linda F. Lacey, Director of Academic Support Services, 1265 TAMU or fax to 847-8737.
INSTRUCTOR

Michael Maedo  Telephone: Office (979) 458-3029
Office: Fermier Hall 111B  Office Hours: MWF, 3:00-4:00 p.m.
Laboratory: Thompson 101A  Email: maedo@entc.tamu.edu

COURSE DESCRIPTION

“Design, operation, application and management of LANs and MANs; topologies, cabling systems, protocols, bridges, routers, hubs, switches, security; media and transport systems; Internet and TCP/IP topics including the protocol stack, router” and bridge “operation and addressing issues.” Credit 4. (3 hour lecture, 2 hour laboratory)

PREREQUISITE

Successful completion of ENTC 215 with a grade of C or better.

COURSE EMPHASIS

This is an applied course in networking with a focus on the design, operation and implementation of IP networks. The goal is to provide a detailed understanding of the protocols, technologies and systems that comprise modern IP networks. The course emphasizes network operation, design and implementation.

PROCEDURE

The class will consist of lecture/recitation sessions, laboratory project work and other assignments. We will strive for maximum correlation between project work and lectures; however, the very nature of independent project work should and often does treat subject matter that is unique.

Problems and readings will be assigned. It is the responsibility of the student to stay current with assignments and project work.

TEXTBOOK


REFERENCES


CYBER COLLABORATION

Use of the Internet to enhance your educational experience is encouraged. The following are examples of ways we will use the network to enhance your ability to learn.

   a) Every effort will be made to make all appropriate documents available to students enrolled in this course available on an FTP file server.
   b) Please use email as the primary method to contact me. I check my email several times daily and will respond to your queries as promptly as possible.
   c) We will develop a list of email addresses for all students registered for the class. This list will be available on the server.

Of course, these efforts are only a first step in our efforts at cyber collaboration. If you have any recommendations on how we can enhance your learning experience in this class through the use of the network please let me know.

LABORATORY PROJECT REQUIREMENTS

All laboratory work must be completed to meet the minimum requirements for a passing grade in the course. Laboratory work will include exercises, programs and projects. Each student is required to maintain a journal. In this journal you will record the progress of your work, questions, references, contact information, web addresses, etc. *Each student is expected to prepare for laboratory work. He/she should read related reference material, conduct appropriate research and work problems related to course materials.*

ATTENDANCE

Students are required to attend all lectures and labs except for excused University absences (see University Regulations). In such cases, the student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for absence. Attendance during all regularly scheduled examinations is required. Students who miss an examination and do not have a documented emergency will receive a zero for the examination grade.

Each student is responsible for all material presented during regularly scheduled lecture and laboratory sessions.

READING AND STUDY

The nature of the material contained in this course is such that it requires thorough understanding of prerequisite material and concentrated study on a regular basis. In order for the lecture material to be of maximum value, each student must read and study the related text material, write as many test programs as time permits, and last but not least, discuss the material with your peers and professor.

TIME MANAGEMENT

The following is an estimate of the minimum time investment required for the course. If, for any reason, you are not prepared to make this investment, you should seriously consider taking the course when you have the time to invest.
ENTC 315: Local and Metropolitan Area Networks

Lecture 3 hr./week
Lecture Study 3 hr./week
Laboratory 2 hr./week
Laboratory Preparation 4 hr./week

Total 12 hr./week

Semester Total = 16 weeks x 12 hr./week = 192 hours.

STUDENT EVALUATION

The students’ evaluation for the course (final grade) will be based on the results of his/her individual work. This will include results of (1) examinations and (2) project work.

Class Participation 200
Periodic Exams (2) 300
Laboratory 300
Final Exam 200

Total 1000

Class Participation includes attendance, quizzes, homework, etc.

Passing CCNA Certification Exam will count as extra credit. Point valuation for this has yet to be determined.

EXAMINATIONS

There will be three exams given throughout the term including the final exam.

IMPORTANT: Make-up exams are not given unless permission is obtained prior to exam day from the instructor or a valid, documented emergency has arisen.

ASSIGNMENTS

Outside of class work will be assigned. Each student will be responsible for completion of all assigned material even if the work is not collected for grading or graded. Late work will not be accepted without consultation with your Professor and appropriate approval received.

Sloppy or disorganized work will adversely affect your grade.

QUIZZES

A quiz is a short, typically in class, evaluation tool that may be used by your professor to see if the student has mastered specific concepts. Quizzes may be announced or unannounced.
GRADING
A letter grade will be assigned for the course based on an analysis of the scores for the complete semester.
In general, the system will be based on the following:
   A 90-100
   B 80- 89
   C 70- 79
   D 60- 69
   F < 60
A curve may be applied to individual and/or cumulative grades at the discretion of the instructor.

ACADEMIC INTEGRITY
Academic Integrity is of uppermost importance in your work. Each student must do his/her own work and give appropriate credit when the ideas or material of others is used. The handouts used in this course are copyrighted. By “handouts,” I mean all material generated for this class, which include but are not limited to syllabi, quizzes, exams, laboratory problems, in-class materials, and review sheets. Because these materials are copyrighted, you do not have the right to copy handouts, unless I expressly grant permission. All students have the responsibility to be fully acquainted with and to comply with University Regulations. Every student should be familiar with the content of University Regulations regarding academic dishonesty.

AMERICANS WITH DISABILITIES ACT POLICY STATEMENT
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 that you have disability requiring accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in room 126 of the Koldus Building, or call 845-1637.
### COURSE SCHEDULE OUTLINE

<table>
<thead>
<tr>
<th>Week</th>
<th>Classroom Topic</th>
<th>Assignment</th>
<th>Laboratory</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Course Overview, OSI Model, Cables</td>
<td><strong>Read Perlman, Chapter 1</strong></td>
<td>Construct Ethernet and Rollover Cables and see where they are used.</td>
</tr>
<tr>
<td>2</td>
<td>Physical Layer: Cables, Connectors, Signal Modulation</td>
<td><strong>Read Perlman, Chapter 2</strong></td>
<td>Differences Between Switches &amp; Hubs</td>
</tr>
<tr>
<td>3</td>
<td>IEEE 802.1 Standards, MAC Addressing</td>
<td><strong>Exercise: Forwarding Frames/Packets with Layer 2 verses Layer 3 addressing</strong></td>
<td>Construct switch networks, part 1</td>
</tr>
<tr>
<td></td>
<td>Quiz 1: Forwarding Frames via Layer 2 addresses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>IEEE 802.2,3 Standards, LLC, Frame Formats, ARP, DHCP</td>
<td><strong>Read Perlman, Chapter 3</strong></td>
<td>Construct switch networks, part 2</td>
</tr>
<tr>
<td>5</td>
<td>Spanning Tree Algorithm</td>
<td><strong>Read Perlman, Chapter 4 &amp; 5</strong></td>
<td>Construct VLAN switched networks, part 1</td>
</tr>
<tr>
<td>6</td>
<td>VLANs, Switch Trunking</td>
<td><strong>First Exam</strong></td>
<td>Construct VLAN switched networks, part 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Read Perlman, Chapter 4 &amp; 5</strong></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>IP Addressing, Classes of IP addresses, subnetting</td>
<td><strong>Read Perlman, Chapter 7,8,9; Read Odom, Chapter 4</strong></td>
<td>Use static routes &amp; RIP routing protocol to build a small network</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Exercise: Administering IP addresses for an Autonomous System</strong></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Static routes; Distance Vector Routing Protocols (RIP and IGRP); Administrative Distance and Route Metrics</td>
<td><strong>Read Perlman Chapter 11; Read Odom, Chapter 5</strong></td>
<td>Use RIP &amp; IGRP routing protocols to build a small network and examine use of Administrative Distance</td>
</tr>
<tr>
<td>9</td>
<td>Distance Vector routing protocol loop avoidance, route summarization</td>
<td><strong>Read Odom, Chapter 11.</strong></td>
<td>Frame Relay network. (Half of class)</td>
</tr>
<tr>
<td>10</td>
<td>Second Exam</td>
<td><strong>Frame Relay interfaces</strong></td>
<td>Frame Relay network. (Half of class)</td>
</tr>
<tr>
<td>11</td>
<td>Link State routing protocols, OSPF</td>
<td><strong>Read Odom, Chapter</strong></td>
<td>ISDN and Dial on Demand interfaces</td>
</tr>
<tr>
<td>12</td>
<td>OSPF continued</td>
<td><strong>Read Odom, Chapter 10.</strong></td>
<td>Configuring and testing NAT/PAT</td>
</tr>
<tr>
<td></td>
<td>ISDN interfaces and Dial on Demand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>NAT/PAT, UDP, TCP</td>
<td><strong>Read Perlman, Chapter 9; Handouts</strong></td>
<td>Building OSPF Single and Multiple Area networks</td>
</tr>
<tr>
<td>14</td>
<td>TCP, 802.11</td>
<td><strong>Handouts</strong></td>
<td>Building OSPF Multiple Area networks</td>
</tr>
<tr>
<td>15</td>
<td>Final Exam</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a Change Course
Undergraduate  Graduate  Professional
Submit original form and 25 copies. Attach a course syllabus to each.*

1. This course is submitted by the Department of __________ .

2. Course prefix, number and complete title of course: __________ .

3. Change Requested:
   a) Prerequisite(s): From ____________________________ To ____________________________
   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. Underline changes(s). Attach a course syllabus.*

4. Complete current course title and current course description: __________ .

   Introduction to Engineering Experimentation. Introduction to the basic principles of engineering experimentation including: instrumentation and measurement techniques, data acquisition, analysis and interpretation and reporting of results.

5. Complete proposed course title and proposed course description (not to exceed 50 words): __________ .

   Mechanical Measurements. Course description same as above (#4).

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEEN</td>
<td>260</td>
<td>INTRO TO ENGR EXPNTS</td>
</tr>
</tbody>
</table>

   Lect.  Lab  SCH  Subject Matter Content Code  FICE Code
   01  03  02  ____________________________  01  03  66

   Do not complete shaded area.

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEEN</td>
<td>260</td>
<td>MECHANICAL MEASUREMENTS</td>
</tr>
</tbody>
</table>

   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  Academic Year  FICE Code
   01  03  02  ____________________________  __________________  __________________  01  03  66

   Do not complete shaded area.

Approval recommended by:

Head of Department  12/1/03

Chair College Review Committee  12/1/03

Head of Department (if cross-listed course)  Date

Dean of College  12/1/03

Submitted to Coordinating Board by:

Dean of College  Date

Director of Academic Support Services  Date  Effective Date

* Attach a syllabus with a course outline of sufficient detail to permit an accurate evaluation of the course content. Include a list of books (indicate authors), titles of scientific journals or other resource materials. Also include the method by which students will be evaluated.
MEEN 260  Mechanical Measurements

COURSE DESCRIPTION: Introduction to basic principles of engineering experimentation, including: instrumentation and measurement techniques, data acquisition and analysis, and interpretation and reporting of results. Two credits (1–3).


COORDINATOR: Dr. R. Langari, Associate Professor, Department of Mechanical Engineering Room 213, Engineering Physics Building (ENPH), Office Wing (979) 845-6918, rlangari@tamu.edu

GOALS: Enable mechanical engineering students to perform experiments in their field, and to analyze and report the results.

PREREQUISITES: ENGR 212, 221; ENGR 213, 215, and MATH 308 or registration therein

TOPICS:
- Week 1: Basic concepts in measurement and instrumentation
  Units and standards
- Weeks 2-4: Probability and statistics and uncertainty analysis: application to experimental data analysis
- Week 5: Analog measurements
- Week 6: Sensors and transducers
- Week 7: Signal conditioning I: bridge circuits
- Week 8: Midterm examination
- Week 9: Signal conditioning II: op amps and filters
- Week 10: Signal conditioning III: digital techniques
- Week 11: Force and torque measurement
- Week 12: Pressure measurement
- Week 13: Temperature measurement
- Week 15: Final examination

Grading: (A, B, C, and D, correspond to 90+, 80+, 70+, 60+):

10% Homework/Quizzes
40% Laboratory
25% Exam I
25% Exam II (Final Exam)
100% 9

ACADEMIC INTEGRITY
"Aggies do not lie, cheat, or steal, nor do they tolerate those who do."

"It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty." (20. Scholastic Dishonesty (Revised: 2002), http://student-rules.tamu.edu/

AMERICAN WITH DISABILITIES ACT (ADA) POLICY STATEMENT
The American with Disabilities Act (ADA) is a federal antidiscrimination 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.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
- Submit original form and 25 copies -

1. This request is submitted by the Department of Atmospheric Sciences

2. Course prefix, number and complete title of course: ATMO 335 Atmospheric Thermodynamics

3. Change requested:
   a) Prerequisite(s): From CHEM 102; PHYS 219 or 208 To CHEM 102; MATH 251; PHYS 218
   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:

5. Complete proposed course title and proposed course description (not to exceed 50 words):

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   Approval recommended by:

   Head of Department Date
   Chair College Review Committee Date
   Dean of College Date

   Submitted to Coordinating Board by:
   Dean of College Date

   Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of Atmospheric Sciences

2. Course prefix, number and complete title of course: ATMO 459 Tropical Cyclones

3. Change requested:
   a) Prerequisite(s): From ______________________ To ______________________
   b) Withdrawal (reason) ______________________
   c) Cross-list with ______________________
   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: Tropical Cyclones. Tropical climatology; structure, evolution and motion of tropical cyclones, tropical cyclone hazards; large scale tropical phenomena.

5. Complete proposed course title and proposed course description (not to exceed 50 words): Tropical Meteorology. Tropical climatology; structure, evolution, and motion of tropical cyclones; tropical cyclone hazards; large-scale tropical phenomena.

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO</td>
<td>459</td>
<td>TROPICAL CYCLONES</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>SCH</th>
<th>Subject Matter Content Code</th>
<th>Admin. Unit</th>
<th>FICE Code</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>00</td>
<td>03</td>
<td></td>
<td></td>
<td>010366</td>
<td></td>
</tr>
</tbody>
</table>

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMO</td>
<td>459</td>
<td>TROPICAL METEOROLOGY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>SCH</th>
<th>Subject Matter Content Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>00</td>
<td>03</td>
<td></td>
<td></td>
<td></td>
<td>010366</td>
<td></td>
</tr>
</tbody>
</table>

   Approval recommended by:

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/24/04</td>
</tr>
<tr>
<td>Head of Department</td>
<td>Date</td>
</tr>
<tr>
<td>Chair, College Review Committee</td>
<td>Date</td>
</tr>
<tr>
<td>Dean of College</td>
<td>Date</td>
</tr>
</tbody>
</table>

   Submitted to Coordinating Board by:

<table>
<thead>
<tr>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/28/04</td>
</tr>
<tr>
<td>Head of Department (if cross-listed course)</td>
<td>Date</td>
</tr>
<tr>
<td>Dean of College</td>
<td>Date</td>
</tr>
</tbody>
</table>

   Director of Academic Support Services

   Date

   Effective Date

   * Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

This request is submitted by the Department of

Naval Science

Course title and complete title of course:

NVSC 402 Leadership and Management II

3. Change requested:
   a) Prerequisite(s): From ______________________ To ______________________
   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: Leadership and Management II

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   Leadership and Ethics

6. a) As currently in course inventory:

   Prefix | Course # | Title (exclude punctuation) |
   ------ | -------- | --------------------------- |
   NVSC   | 402      | Leadership & Mgmt I I       |

   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code |
   ----- | --- | --- | --------------------------- | ----------- | --------- |
   0     | 0   | 0   | 0                          | 0           | 10366     |

   Do not complete shaded area.

   b) Changed to:

   Prefix | Course # | Title (exclude punctuation) |
   ------ | -------- | --------------------------- |
   NVSC   | 402      | Leadership & Ethics       |

   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
   ----- | --- | --- | --------------------------- | ----------- | ---------- | --------- |
   0     | 0   | 0   | 0                          | 0           | 10366     |

   Approval recommended by:

   [Signature]
   [Name]
   [Position]
   [Date]

   Head of Department

   Chair, College Review Committee
   [Signature]
   [Name]
   [JAN 14 2004]
   [Date]

   Head of Department (if cross-listed course)
   [Signature]
   [Name]
   [Date]

   Dean of College

   Submitted to Coordinating Board by:

   [Signature]
   [Name]
   [Date]

   Dean of College

   Effective Date

Director of Academic Support Services
[Signature]
[Date]

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.

OARAS-1099