The University Curriculum Committee recommends approval of the following:

1. **New Course**

   **BMEN 282. Engineering Biology. (3-0). Credit 3.** Application of engineering principles to biological function at the molecular and cellular level. Prerequisites: Admitted to major degree sequence and CHEM 101 or 107.

2. **Withdrawal of Courses**

   - BUSH 470. Cold War Intelligence.
   - BUSH 489. Special Topics In…
   - CHEM 323. Physical Chemistry.
   - CHEM 324. Physical Chemistry.
   - INFO 438. Emerging Information Technologies.

3. **Change in Courses**

   **INFO 374. Business Information Security.**

   **Course Title**

   - **From:** Business Information Security.
   - **To:** Business Information Security and Risk Management.

   **Course Description**

   - **From:** Explores the business, managerial and technological aspects of information security; analysis, design, implementation and management issues surrounding effective information security; includes business continuity planning, CIA model, disaster recovery, security policy development, risk management, security protocols, virus protection and VPN.
   - **To:** Explores business, managerial and technological aspects of information security; analysis, design, implementation and management issues surrounding effective information security; includes risk management, business continuity planning, security policy development.

   **INFO 429. Business Systems Analysis and Design.**

   **Course number**

   - **From:** INFO 429.
   - **To:** INFO 330.

   **Course description and prerequisites**

   - **From:** Techniques and methods currently used in system analysis and design; use of automated tools to support systems development. Prerequisite: INFO 328 or approval of instructor.
   - **To:** Techniques and methods currently used in system analysis and design including object oriented methods; use of automated tools to support systems development. Prerequisite: INFO 328 or concurrent enrollment.
**PHYS 101. Topics in Contemporary Physics.**

**Course title**
- From: Topics in Contemporary Physics.
- To: Freshman Physics Orientation.

**Course description and prerequisites**
- From: Modern developments in the frontier areas of experimental and theoretical physics. Research specialties in the Department of Physics will be represented, including equipment demonstrations and visiting speakers. For physics majors. Registration by non-majors requires approval of physics department head.
- To: Critical thinking skills and problem solving in physics: time management and teaming skills. May be taken twice for credit. For physics majors. Registration by non-majors requires approval of physics department head. Prerequisite: Registration in PHYS 218 or 208.

**PHYS 401. Computational Physics.**

**Course description and prerequisites**
- From: Computational techniques in physics applications and research; including numerical interpolation, differentiation and integration, symbolic computation, Monte Carlo methods, vector and matrix operations, graphics, differential equations, variational methods and fast Fourier transforms. Prerequisites: MATH 331; MATH 412; PHYS 302; PHYS 309; ability to program in a high level language, such as FORTRAN. CPSC 203 can be used to satisfy this requirement.
- To: Introduction to computational and simulational techniques widely used in physics applications and research, including trajectory integration, wave motion analysis, molecular dynamics, Monte Carlo methods, statistical mechanics of spin systems, phase transitions, quantum evolution, bound state problems, and variational methods. Prerequisites: MATH 331; MATH 412; PHYS 302; PHYS 309; knowledge of a high level language such as FORTRAN or C. This prerequisite can be obtained by taking CPSC 206 or the equivalent.
Texas A&M University
Departmental Request for a New Course
Undergraduate ♦ Graduate ♦ Professional

1. This request is submitted by the Department of Biomedical Engineering

2. Course prefix, number and complete title of course: BMEN 282 Engineering Biology

3. Course description (not more than 50 words): Application of engineering principles to biological function at the molecular and cellular level.

4. Prerequisite(s) 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 a 289/489/689? ☑ Yes ☐ No If yes, how many times? __289/1__ Indicate the number of students enrolled for each academic period it was taught. __59/06C__

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

<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>03</td>
<td>00</td>
<td>03</td>
<td>1 4 5 0 1 0 0 6 4 5 0 0 8 0 9</td>
<td>0 0 3 6 3 2</td>
<td>Level 2</td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department Date

Chair, College Review Committee Date

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

Questions regarding this form should be directed to Sandra Williams at 845-8836.
CAR/AS – 04/07 3 of 30 E
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

Submit original form and 2 copies. Attach a course syllabus to each.

1. This request is submitted by the Department of ____________________________

2. Course prefix, number and complete title
   BMEN 282, Engineering Biology

3. Course description (not more than 50 words)
   This course will apply engineering methods to understand biological function from the molecular/cellular level.

4. Prerequisite(s) Admitted to major degree sequence & CHEM 101/107
   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? ______
   Indicate the number of students enrolled for each academic period it was taught. 5906C

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      BS in Biomedical Engineering
   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)
    BMEN 282 ENGINEERING BIOLOGY

    Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
    03 00 031 466 0000 6 04 50 07 08 0 03 6 3 2

    Do not complete shaded area.

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

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

OAR/AS-204

4 of 30 E
Course: BMEN 282  
Course Title: Engineering Biology  
Instructor: Roland Kaunas, Ph.D.  
Department of Biomedical Engineering, Texas A&M University  
E-mail: rkaunas@bme.tamu.edu  
Office Hours: TBA  
Textbook: TBA  

Description: Application of engineering methods to understand biological function from the molecular/cellular level.  

Prerequisites: Admitted to major degree sequence in BMEN, Chem 101 or 107.

<table>
<thead>
<tr>
<th>Topics</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Expectations</td>
<td>1</td>
</tr>
<tr>
<td>Introduction to Engineering Biology</td>
<td>9</td>
</tr>
<tr>
<td>Enzyme Kinetics</td>
<td>5</td>
</tr>
<tr>
<td>Biotechnology</td>
<td>6</td>
</tr>
<tr>
<td>Cytoskeletal and Matrix Protein Mechanics</td>
<td>6</td>
</tr>
<tr>
<td>Mass Transport</td>
<td>4</td>
</tr>
<tr>
<td>Receptor-Ligand Kinetics &amp; Diffusion</td>
<td>4</td>
</tr>
<tr>
<td>Biomaterial Interactions</td>
<td>2</td>
</tr>
<tr>
<td>Cell Signaling Models</td>
<td>3</td>
</tr>
<tr>
<td>Mechanotransduction</td>
<td>2</td>
</tr>
<tr>
<td>Total</td>
<td>42</td>
</tr>
</tbody>
</table>

Grading:  
Homework/Quizzes 20%  
Exam #1 15%  
Exam #2 15%  
Exam #3 15%  
Comprehensive Final Exam 35%  

Make-Up Exams: Make-up exams/presentation due dates will be allowed only for official University excuses. Instructor must be informed personally by the end of the second working day after the absence of missing the exam/exercise due date. All make-up exams (acceptance of essays after due date) must be completed in accordance with university rules found online at http://student-rules.tamu.edu/rule7.htm.

Late Assignments: Late assignments are subject to penalty in accordance with attendance rules found online at http://student-rules.tamu.edu/rule7.htm.

Changes in Schedule: The instructor reserves the right to change the order and content of lectures as necessary. Exam dates may be changed by the instructor, but in each case, at least 5 days notice will be given.

Exam Material: Exam material will be mainly derived from the lecture notes and handouts. The textbook is supplemental and serves to help clarify material covered in the lectures.

University policy on plagiarism: As commonly defined, plagiarism consists of passing off as one’s own the ideas, words, writings, etc. which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have permission of that person. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty,” which can be found online at http://student-rules.tamu.edu/rule20.htm.

Attendance: “The university views class attendance as an individual student responsibility. Students are expected to attend classes and to complete all assignments,” and found online at http://student-rules.tamu.edu/rule7.htm.

The American with Disabilities Act: The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was forwarded to the Faculty Senate for information. The Americans with Disabilities Act (ADA) is a federal 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 B118 of Cain Hall or call 845-1637.

Academic Integrity: Aggie Code of Honor: “Aggies do not lie, cheat, or steal, nor do they tolerate those who do.” “It is the responsibility of students to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty,” which can be found online at http://student-rules.tamu.edu/rule20.htm.
8 February 2007

MEMORANDUM

TO: Fidel G. Fernandez, Senior Academic Advisor, Biomedical Engineering

FROM: Thomas D. McKnight, Associate Head of Biology

SUBJECT: Approval of BMEN 282 Engineering Biology

The Department of Biology has no objection to your proposed sophomore-level course, BMEN 282 Engineering Biology.

One potential problem that may come up in review at the university level is that this course has a lower-level number, but students must be admitted to the upper-level program in your department before taking it. The discrepancy between student level and course level will result in a significant loss of subvention from the state.

The course is required at the sophomore year for second year students and appropriately numbered for subvention considerations.

Fidel Fernandez

xc: Vincent Cassone
Michael Benedik
Tim Scott
Memorandum

November 6, 2006

TO: Dr. J.M. Gunn
Biochemistry and Biophysics Associate Department Head

FROM: Dr. Gerard L. Coté
Charles H. & Bettye Barclay Professor and Department Head

RE: Letter of Support Requested

The Department of Biomedical Engineering is planning to offer a new undergraduate course as part of the required undergraduate curriculum for the BS degree: Engineering Biology. To avoid delays in the approval process, we are requesting that you please review the attached syllabus and provide us with a brief letter of support for the course. Alternatively, if there is overlap with this course and courses in your department, please let us know so we can resolve the issue. Please send letter of support to our undergraduate advisor, Dr. Fidel G. Fernandez at MS 3120. Thank you for your assistance on this matter.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and 2 copies •

1. This request 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): ________________________________
      This course is no longer offered by the Bush School, only graduate courses are offered.
   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>BUS</td>
<td>470</td>
<td>Cold War Intelligence</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>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>030003</td>
<td></td>
<td>003632</td>
</tr>
</tbody>
</table>

Do not complete shaded area.

b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
</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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>003632</td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department ________________________________ Date __________

Chair, College Review Committee ________________________________ Date __________

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 __________

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

8 of 30 E
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and 2 copies

1. This request is submitted by the Department of Bush School

2. Course prefix, number and complete title of course: 488 Special Topics in.......

3. Change requested:
   a) Prerequisite(s): From ____________________________ To ____________________________
   b) Withdrawal (reason) This course is no longer offered by the Bush School, only graduate courses are offered.
   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>B U S H 4 8</td>
<td>S p e c i a l T o p i c s i n</td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td>0 3 0 0 0 3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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></td>
<td></td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department
Date

Chair, College Accreditation Committee
Date

Dean of College
Date

Submitted to Coordinating Board by:

Dean of College
Date

Director of Academic Support Services
Date

Effective Date

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

OAKAS-504
Texas A&M University

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

Submit original form and 2 copies

1. This request is submitted by the Department of Chemistry.

2. Course prefix, number and complete title of course: CHEM 323 Physical Chemistry

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason): Approved CHEM 327 to take its place
   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. Underline 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>CHEM</td>
<td>323</td>
<td>PHYSICAL CHEMISTRY</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab SCH</td>
<td>Subject Matter Content Code</td>
</tr>
<tr>
<td>030003</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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab SCH</td>
<td>Subject Matter Content Code</td>
</tr>
<tr>
<td>030003</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department: ___________________________ Date: ____________

Chair, College Review Committee: ___________________________ 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: ___________________________

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 Chemistry.

2. Course prefix, number and complete title of course: CHEM 324 Physical Chemistry

3. Change requested:
   a) Prerequisite(s): From ____________________________ To ____________________________
   b) Withdrawal (reason) Approved CHEM 328 to take its place
   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>CHEM 324</td>
<td>PHYSICAL CHEMISTRY</td>
<td></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>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>03</td>
<td>03632</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>
</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>
</tr>
</thead>
</table>

Approval recommended by: [Signature]
Head of Department Date: 2/8/07
Chair College Review Committee Date: 3/8/07

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

Submitted to Coordinating Board by: [Signature]
Dean of College Date

Director of Academic Support Services Date
Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 845-8137.
OAR/AS-504
Texas A&M University

Departmental Request for a Change in Course
Undergraduate  Graduate  Professional
Submit original form and 2 copies.

1. This course is submitted by the Department of  Information and Operations Management

2. Course prefix, number and complete title of course: INFO 332 Business Systems Operating Environment

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) Course no longer taught
   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 course description:

5. Complete proposed course title and 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>INFO</td>
<td>332</td>
<td>BUSN SYSTM OPERATE ENVRM</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>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>12 0 10 01 0 1 0 3 4</td>
<td>Level 55</td>
</tr>
</tbody>
</table>

b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
</table>

<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></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>010366</td>
<td>Level 55</td>
</tr>
</tbody>
</table>

Approval recommended by:

[Signature]  3/21/07
Head of Department

[Signature]  3/21/07
Chair, College-Review Committee

[Signature]  3/21/07
Dean of College

Head of Department (if cross-listed course)  Date

Submitted to Coordinating Board by:

[Signature]  Date
Dean of College

Director of Academic Support Services  Date  Effective Date

* Attach a syllabus according to the guidelines on the web site www.tamu.edu/courseforms. 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

Submit original form and 2 copies.

1. This course is submitted by the Department of Information and Operations Management

2. Course prefix, number and complete title of course: INFO 430 Advanced Systems Analysis and Design

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) Course no longer taught
   c) Cross-list with ___________________________

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

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.*

4. Complete current course title and course description:

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

6. a) As currently in course inventory:

   Prefix | Course # | Title (exclude punctuation)
   ------ | -------- | --------------------------
   INFO 4 3 0 A D V S Y S T E M S A N A L Y & D E S

   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code
   ----- | --- | --- | --------------------------- | ----------- | --------
   0 3 0 0 3 | 5 | 2 | 2 | 0 | 1 | 0 | 0 | 6 | 1 | 6 | 3 | 4 | 0 | 0 | 3 | 8 | 3 | 2

Do not complete shaded area

b) Changed to:

   Prefix | Course # | Title (exclude punctuation)
   ------ | -------- | --------------------------

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

Level

Approval recommended by:

[Signature] 3/18/07
Head of Department  Date

Chair, College Review Committee  Date

[Signature] 3/21/07
Dean of College  Date

Head of Department (if cross-listed course)  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 web site www.tamu.edu/courseforms. 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
Submit original form and 2 copies.

1. This course is submitted by the Department of Information and Operations Management

2. Course prefix, number and complete title of course: INFO 438 Emerging Information Technologies

3. Change requested:
   a) Prerequisite(s): From __________________________ To __________________________
   b) Withdrawal (reason) Course no longer taught
   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 course description:

5. Complete proposed course title and 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>INFO</td>
<td>438</td>
<td>INFORMATION TECHNOLOGIES</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>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>030112301001061834</td>
<td>003832</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></td>
<td></td>
<td></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>Academic Year</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department  Date  Chair, College Review Committee  Date

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 web site www.tamu.edu/courseforms. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1255 or fax to 847-8737.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate  Graduate  Professional

Submit original form and 2 copies.

1. This course is submitted by the Department of Information and Operations Management

2. Course prefix, number and complete title of course:  INFO 374 Business Information Security

3. Change requested:
   a) Prerequisite(s): From
   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. Underline change(s). Attach a course syllabus.*

4. Complete current course title and course description:  INFO 374 Business Information Security. Explores the business, managerial and technological aspects of information security: analysis, design, implementation and management issues surrounding effective information security; includes business continuity planning, CIA model, disaster recovery, security policy development, risk management, security protocols, virus protection and VPN.

5. Complete proposed course title and course description (not to exceed 50 words): Business Information Security and Risk Management

Explores business, managerial and technological aspects of information security: analysis, design, implementation and management issues surrounding effective information security; includes risk management, business continuity planning, security policy development.

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>INFO 374</td>
<td>BUS INFORMATION SECURITY</td>
<td></td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td>0</td>
<td>3</td>
<td>0</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>INFO 374</td>
<td>BUS INFORMATION SECURITY &amp; RISK</td>
<td></td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td>0</td>
<td>3</td>
<td>0</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 web site www.tamu.edu/courseforms. To have this form reviewed, it must be attached to
Syllabus
INFO 374:
Business Information Security and Risk Management

Course Purpose/Objectives: Explores advanced business, managerial and technological aspects of information security; analysis, design, implementation and management issues surrounding effective information security; includes risk management, business continuity planning, security policy development, security protocols.

Teaching Methods:
1. Lectures: Important material from the text and outside sources will be covered in class. Students should plan to take careful notes as not all material can be found in the texts or readings. Discussion is encouraged as is student-procured, outside material relevant to topics being covered.
2. Homework Assignments: Problems, cases, and readings will be periodically assigned to help support and supplement material found in the text.
3. Class Participation: Students are expected to actively participate in discussing the issues related to the topic of the day.

Grading: The final grade is based on a 500-point system:

<table>
<thead>
<tr>
<th></th>
<th>Maximum Points</th>
<th>% of Final Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk Assessment Project</td>
<td>125</td>
<td>15%</td>
</tr>
<tr>
<td>Home Assignments</td>
<td>75</td>
<td>25%</td>
</tr>
<tr>
<td>Mid-term Exam</td>
<td>125</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>125</td>
<td>25%</td>
</tr>
<tr>
<td>Attendance &amp; Class Participation</td>
<td>50</td>
<td>10%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>500</td>
<td>100%</td>
</tr>
</tbody>
</table>
Course Policies

**Missed Classes**: The student is responsible for obtaining material, which may have been distributed on class days when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours or other times. If a student misses more than 3 classes without a University Excuse (see Student Rules: Rule 7 –http://student-rules.tamu.edu), he or she will lose a grade level.

**Assignments**: All assignments are due at the beginning of class on the date due. Late submission of assignments will be assessed a penalty of 10% per day. No exceptions are made for unexcused absences. The University’s Excused absence rules will be followed. (see Student Rules: Rule 7 –http://student-rules.tamu.edu). Every assignment should contain the following statement signed by the student:

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

______________________________
Signature of student

**Aggie Honor Code**

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: www.tamu.edu/aggiehonor/
**Need for Assistance:**

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

**Americans with Disabilities Act (ADA) Policy Statement**

The Americans 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 B118 of Cain Hall or call 845-1637.

---

**TOPICS TO BE COVERED**

1. **Week 1**: Overview of the threat environment in which organizations function and the risks associated with these threats
2. **Weeks 2-4**: Specific threats faced by organizations and the risks associated with these threats
   a. Week 2 & 3: Technical threats
   b. Week 4: Non-technical threats- natural calamities, and socio/political threats
3. **Weeks 5 – 12**: Risk Management
   a. Week 5-8: IT/IS strategy
      i. Access Control and Site security
      ii. Firewalls and Intrusion Detection Systems
      iii. Cryptography- elements and systems
      iv. Host / Application / Wireless Security
   b. Week 9-12: Management Strategy
      i. Developing/Evaluating Information Security Policies
      ii. Incident and Disaster Response
      iii. Managing the Security Function
      iv. Legal and Ethical Issues
4. **Weeks 13-14**: 
   One week has been set aside for two exams; and one week has been set aside for additional discussion on topics that interest the students, and/or external speakers.
## Texas A&M University

**Departmental Request for a Change in Course**

**Undergraduate  Graduate  Professional**

Submit original form and 2 copies.

1. This course is submitted by the Department of Information and Operations Management

2. Course prefix, number and complete title of course: INFO 429 Business Systems Analysis and Design

3. Change requested:
   a) Prerequisite(s): From INFO 328 or approval of instructor To INFO 328 or concurrent enrollment
   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. Underline change(s). Attach a course syllabus.*

4. Complete current course title and course description: INFO 429 Business Systems Analysis and Design. Techniques and methods currently used in system analysis and design; use of automated tools to support systems development.

5. Complete proposed course title and course description (not to exceed 50 words): INFO 330 Business Systems Analysis and Design. Techniques and methods currently used in system analysis and design including object oriented methods; use of automated tools to support systems development.

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>INFO</td>
<td>429</td>
<td>BUS SYSTEMS ANLY &amp; DESN</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH Subject Matter Content Code Admin. Unit FICE Code</td>
</tr>
<tr>
<td>0300</td>
<td>003</td>
<td>0010001634003632</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>INFO</td>
<td>330</td>
<td>BUS SYSTEMS ANLY &amp; DESN</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH Subject Matter Content Code Admin. Unit Academic Year FICE Code</td>
</tr>
<tr>
<td>0300</td>
<td>003</td>
<td>00101001634003632</td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department

Date

Chair, College Review Committee

Date

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 web site www.tamu.edu/courseforms. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Department of Information and Operations Management
INFO 330 -- Business Systems Analysis and Design

Instructor: Dr. Jasperon
Office: WCBA, 320H
Phone: 979-845-7946
E-Mail: jon.jasperon@tamu.edu
Webpage: http://www-info.tamu.edu/faculty/jjasperon
Office Hours: 3:00 to 4:30 p.m. MW and by appointment

"The [university] exists for the students . . . but the university cannot give you an education -- it can only help you acquire one for yourselves. The main effort must be made by the students."

(George Lynn Cross -- 1952)

Course Overview and Objectives

Systems analysis and design is concerned with bringing all of a system’s components together: software, hardware, people, procedures, databases, and etc. You will learn about the role of the systems analyst during systems development.

In particular, this course focuses on the analysis, design, implementation, and maintenance of information systems. Along the way, you will learn about the tools, techniques, and methodologies used by systems analysts to develop information systems in organizations. This course emphasizes both the traditional structured approach and the more recent object-oriented approach to systems development.

At the end of the course, successful students should be able to:

- Understand and explain the role of information systems in organizations
- Understand systems analysis and design concepts that apply to business organizations
- Apply common modeling techniques to represent the specifications of a system
- Understand and explain the processes of the systems development lifecycle
- Work successfully with a team of peers on a common problem
Course Prerequisites

The “Database Management Systems” course (INFO 328) is a posted prerequisite/co-
requisite for this course. You must have either completed the INFO 328 course or be
concurrently enrolled in the INFO 328 course to enroll in this course.

Course Text

Satzinger, J. W., Jackson, R. B., and Burd, S. D. Systems Analysis and Design in a

Occasionally additional reading and study from outside sources may be required or
recommended. These sources will include, but are not limited to, recent newspapers,
business journals and monographs, and the World Wide Web. Any such reading/study
assignments will be announced in class by the instructor.

Grading and Course Requirements

The course requirements and evaluation of each student’s work in the course are
based upon performance in four areas: exams, class participation, homework, and a
team project. Grade contributions and letter grade determination are shown below.

<table>
<thead>
<tr>
<th></th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conceptual Midterms</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
</tr>
<tr>
<td>Class Participation</td>
<td></td>
</tr>
<tr>
<td>Homework</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
</tr>
<tr>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Percent</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>91-100</td>
<td>A</td>
</tr>
<tr>
<td>81-90</td>
<td>B</td>
</tr>
<tr>
<td>71-80</td>
<td>C</td>
</tr>
<tr>
<td>61-70</td>
<td>D</td>
</tr>
<tr>
<td>0-60</td>
<td>F</td>
</tr>
</tbody>
</table>

Conceptual Midterms. There will be two conceptual midterm examinations. Each
conceptual midterm exam is worth 10% of your final grade. The conceptual midterms
will consist of questions to assess students’ understanding of the conceptual issues
related to systems analysis and design (i.e., terminology, definitions, syntax, etc.).
These examinations will cover material from text readings, class discussions, guest
lectures, and outside readings. Students will be required to purchase a scantron form for use in completing the conceptual midterm exams.

**Application Midterms.** There will be two application midterm examinations. Each application midterm exam is worth 15% of your final grade. The application exams will assess the extent to which students can apply proper systems modeling techniques to solve a systems problem. Students will be given a case description to use in preparing for each application midterm. Each student will be allowed to use one 8½ X 11 sheet of notes about the case while taking the application midterms.

**Final Exam.** The final exam is worth 10% of your final grade. The final exam is similar to a conceptual midterm. Students will be required to purchase a scantron form for use in completing the final exam.

Each exam will cover any material previously discussed in class. The exams are not comprehensive; however, they are cumulative. Knowledge is cumulative and material discussed at the end of the semester will draw from earlier course material. Therefore, examinations toward the end of the semester will draw upon, (and may even ask questions about), major concepts covered during earlier portions of the course.

**Participation.** Participation is based on participation in and contribution to course-related activities. Students are expected to contribute to classroom discussions and activities. In addition, students are expected to participate in the electronic course discussion forum.

I will periodically give unannounced quizzes and/or in-class assignments. These activities will be used to facilitate that day's class discussion and/or to enable me to collect feedback on your understanding of course concepts.

The quizzes and assignments will typically cover material from prior class discussions or from the assigned reading for the current class period. Completion of the chapter review questions and review of the key terms for each chapter are strongly recommended as preparation for each class period.

Participation may also include both assigned and no-notice brief presentations of the material assigned for the current class period. These presentations may be on an individual or team basis. Presentations are expected to go beyond just summarizing or restating material and will be used to conduct the class discussion for the day's assigned materials. Presentations often include sharing individual or group solutions to assigned homework problems.

**Homework.** There will be 4 individual homework assignments and 3 team homework assignments during the semester. All work on individual assignments is to be performed by the individual submitting the work for grading.
Each assignment will be worth 100 points. Homework is always due at the beginning of the class period on the due date. Submitted homework assignments should look professional (i.e., have correct spelling, proper grammar, consistent format, good writing style, cover sheet, multiple pages stapled together, etc.).

The requirements for these assignments will be made available on the web. You will be expected to view and use the documents online or download and print the assignment from the web (see the "Electronic Course Support" section). Handouts for the assignments will not be distributed in class.

You should make every effort to complete the homework assignments early. Those who wait until the last minute risk delays with the computer facilities (i.e., down time, printer jams, computer crashes, etc.) and availability of the instructor.

Team Project. The team project will give you hands-on experience designing a computer-based information system. Details for the project will be posted on the course website.

Teams should make every effort to complete the project early. Those who wait until the last minute risk delays with the computer facilities (i.e., down time, printer jams, computer crashes, etc.) and availability of the instructor.

Late Work Policy

Homework assignments or projects turned in late will be discounted by 10% per day. “Late” means submitting an assignment or project anytime after the assignment has been collected in class by the instructor. Projects and assignments turned in more than 72 hours late will not be graded.

Exception: Students with excused absences will be given adequate time and opportunities to submit work they missed due to absence. Students must provide documentation and notice to the instructor as specified in TAMU student rules. (Student Rules: Rule 7 -- http://student-rules.tamu.edu).

Office Hour Policy

Office hours provide an opportunity for you to obtain specific guidance and help with your understanding of the material. I expect you to use them as your needs demand. I tend to be unsympathetic toward individuals with grade problems at the end of the semester who have never attempted to get help via office hours.

During office hours, I will not answer questions regarding any to-be-graded assignments (i.e., homework or the group project). Questions regarding to-be-graded assignments (i.e., homework and projects) must be asked in class or e-mailed to the instructor. I will post the question (stripped of identifying information) and my response to the discuss course topics forum. This policy has two purposes: 1) it forces
you to articulate your questions, and 2) it allows all students to have the same information for completing the assignment.

The purpose of office hours is for you to obtain assistance in understanding the course material. I will gladly respond to questions that you may have regarding material that was covered during a class discussion and/or provide feedback on diagramming or modeling efforts that do not pertain to assigned homework or projects.

Electronic Course Support

I use the Mays Portal as a means of electronic support for class activities. I will refer to this resource as the course website. Links to the syllabus and other pertinent course information can be found in the Mays Portal system. You should check the course website regularly to be informed of what is happening in the class. You can login to the Mays Portal system at the following URL: (http://maysportal.tamu.edu).

I rely extensively on electronic communication with the class. As professionals, you should have the habit of regularly checking your e-mail. When I send e-mail messages to the class, I will use the “Class News” forum in the Mays Portal. All students who enroll in the Mays Portal course will be automatically added to the a distribution list for the Class News forum.

I have also created a forum entitled “Discuss Course Topics.” This forum will be a student-driven forum. Use this forum to pose questions of your peers regarding course topics.

You may choose to unsubscribe from the course forums. If you choose to unsubscribe from a forum, you will no longer receive email messages when new items are posted; however, you will still be able to browse the forum to review news items. It is your responsibility to be aware of all content in the course forums.

Students With Disabilities

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.

Texas A&M University is committed to providing reasonable accommodation for all students with disabilities. If you believe you have a disability requiring an accommodation, please speak with the instructor as early in the semester as possible.

Students with disabilities must be registered with Disability Services prior to receiving accommodations in this course (http://disability.tamu.edu). The Office of Disability Services is located in Cain Hall, Room B118, or call 845-1637.
Religious Holidays

It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required course work that may fall on religious holidays. If possible, please speak with the instructor in advance of any such observances to make appropriate arrangements for missed work (Student Rules: Rule 7 and Appendix IV at http://student-rules.tamu.edu).

Aggie Honor Code

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

You can learn more about the Honor Council Rules and Procedures as well as your rights and responsibilities Aggie Honor website (http://www.tamu.edu/aggiehonor).

The steps and processes outlined in the Honor Council Rules and Procedures will be followed in all cases of academic misconduct in this class.

On the cover sheet of each exam in this course, students are required to state their commitment to the Aggie Honor Code by adding their signature to the following statement.

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

Food and Drink in the Classroom

We have beautiful and state-of-the-art classrooms in the Wehner Building. We want to maintain the high quality of these classrooms for current and future students. Thus, it is necessary for you to adhere to the established policy of no beverages (except water), food, tobacco products, or like items within the Wehner Building Classrooms. This policy will be strictly enforced.

Class Policies

➢ Do not engage in disruptive behavior in the classroom. Interfering with your fellow students' ability to learn will not be tolerated. (Student Rules: Rule 21 -- http://student-rules.tamu.edu)
- **Turn assignments in when they are due.** I will accept late assignments and projects as outlined under “Late Work Policy” above. “Late” means anytime after the assignment has been collected in class by the instructor.

- **Be prepared.** Each student is expected to come to class fully prepared to discuss the material from the assigned readings. I will expect students to have read the text before class and rely on their preparedness to drive class discussions.

- **Attend class.** If you must miss class, it is your responsibility to find out what material, homework assignments, schedule changes, etc. you missed. Do not come to my office a week later and ask, “Did I miss anything?” (Assume that I would answer “yes” to this question.) Students with excused absences will be allowed adequate time and opportunity to make-up missed in-class quizzes and assignments after they provide proper documentation and notice to the instructor. (Student Rules: Rule 7 -- http://student-rules.tamu.edu)

- **Arrive on time and stay for the duration of each class.** If you must be late to or leave early from class, please let me know beforehand and be as unobtrusive as possible. It is very disruptive to have students walking in and out during class time.

- **Take exams during the scheduled time.** I will follow guidelines as established by the TAMU Student rules regarding excused absences. Students with excused absences will be allowed adequate time and opportunity to make-up missed exams after they provide proper documentation and notice to the instructor. (Student Rules: Rule 7 -- http://student-rules.tamu.edu)

**Miscellaneous Class Notes**

**Problems.** This is a very difficult course. Let me know, as early as possible, if you have trouble with the material, assignments, project, team members, etc. Ask questions during class. Come see me during office hours. Send e-mail messages. In short, if you are doing the work and need help, get it! I cannot help you if I am not aware of the problem. If you find yourself in a team that is causing problems which you and the team cannot work out, please come see me as soon as possible.

**Privacy of grades.** Scores and grades will be posted on the course website. You will only be able to see your own scores and grades. I do not discuss scores or grades over the phone or via e-mail. If you would like to discuss your scores or grades, please visit me during office hours.

**Syllabus changes.** The topics and dates as outlined in the course schedule are subject to change. All necessary changes will be announced and discussed in class. In addition, a notice will be posted to the Class News forum. You are responsible for making sure you are aware of any such changes. However, the dates of the examinations will not change.
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Class Discussion</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Approaches to system development</strong> Beginning the analysis: Investigating system requirements</td>
<td>Chap 2 Chap 4</td>
</tr>
<tr>
<td>2</td>
<td><strong>Modeling system requirements: Events and things</strong></td>
<td>Chap 5</td>
</tr>
<tr>
<td>3</td>
<td><strong>The traditional approach to requirements</strong></td>
<td>Chap 6</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td><strong>The object-oriented approach to requirements</strong></td>
<td>Chap 7</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td><strong>The world of the modern systems analyst</strong></td>
<td>Chap 1 Chap 3</td>
</tr>
<tr>
<td></td>
<td><strong>The analyst as a project manager</strong></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td><strong>Evaluating alternatives for requirements, environment, and Implementation</strong></td>
<td>Chap 8 Chap 18</td>
</tr>
<tr>
<td></td>
<td><strong>Packaged software and enterprise resource planning</strong></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td><strong>Moving to design</strong></td>
<td>Chap 9 Chap 10</td>
</tr>
<tr>
<td></td>
<td><strong>The traditional approach to design</strong></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td><strong>The object-oriented approach to design: Use case realization</strong></td>
<td>Chap 11 Chap 12</td>
</tr>
<tr>
<td></td>
<td><strong>Advanced topics in object-oriented design</strong></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td><strong>Designing the user Interface</strong></td>
<td>Chap 14 Chap 15</td>
</tr>
<tr>
<td></td>
<td><strong>Designing system interfaces, controls, and security</strong></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td><strong>Making the system operational</strong></td>
<td>Chap 16 Chap 17</td>
</tr>
<tr>
<td></td>
<td><strong>Current trends in system development</strong></td>
<td></td>
</tr>
</tbody>
</table>

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

2. Course prefix, number and complete title of course: PHYS 101, TOPICS IN CONTEMPORARY PHYSICS

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: TOPICS IN CONTEMPORARY PHYSICS: Modern developments in the frontier areas of experimental and theoretical physics. Research specialties in the Department of Physics will be represented, including equipment demonstrations and visiting speakers. For physics majors. Registration by non-majors requires approval of physics department head.

5. Complete proposed course title and proposed course description (not to exceed 50 words): FRESHMAN PHYSICS ORIENTATION: Critical thinking skills and problem solving in physics: time management and learning skills. May be taken twice for credit. For physics majors. Registration by non-majors requires approval of physics department head.

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>PHYS</td>
<td>101</td>
<td>TOPICS IN CONTEMPORARY PHYSICS</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td>01</td>
<td>000</td>
<td>01</td>
</tr>
</tbody>
</table>

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>PHYS</td>
<td>101</td>
<td>FRESHMAN PHYSICS ORIENT</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>SCH</td>
</tr>
<tr>
<td>01</td>
<td>000</td>
<td>01</td>
</tr>
</tbody>
</table>

Approval recommended by:

Head of Department Date
Chair, College Review Committee Date
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

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1365 or fax to 847-8737.28 of 30 E
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of Physics
2. Course prefix, number and complete title of course: PHYS 401, Computational Physics

3. Change requested:
   a) Prerequisite(s): From MATH 311, MATH 412; PHYS 302, PHYS 309; To MATH 311, MATH 412, PHYS 302, PHYS 309, (see attached for more)
   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. Underline change(s). Attach a course syllabus.

4. Complete current course title and current course description: COMPUTATIONAL PHYSICS: Computational techniques in physics applications and research; including numerical interpolation, differentiation and integration, symbolic computation, Monte Carlo methods, vector and matrix operations, graphics, differential equations, variational methods and fast Fourier transforms.

5. Complete proposed course title and proposed course description (not to exceed 50 words): COMPUTATIONAL PHYSICS: Introduction to computational and simulations techniques widely used in physics applications and research, including trajectory integration, wave motion analysis, molecular dynamics, Monte Carlo methods, statistical mechanics of spin systems, phase transitions, quantum evolution, bound state problems, and variational methods.

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></td>
<td></td>
<td></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>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

   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></td>
<td></td>
<td></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>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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
Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737: 29 of 30 E
PHYS 401 course change request

Additional prerequisite:

From: Ability to program in a high level language, such as FORTRAN. CPSC 203 can be used to satisfy this requirement.

To: Knowledge of a high level language such as FORTRAN or C. This prerequisite can be obtained by taking CPSC 206 or the equivalent.