

Undergraduate Curriculum Committee Agenda

November 19, 2010

To: David Allard, Terry Bechtel, Victor Govindaswamy, Tommie Hughes, Luz Mary Rincon, Tom Wagy, Carla Snyder, Kristi Johnson-Cobb, Rosanne Stripling, Peter Racheotes, and John Humphrey

From: George Boger, Chairman

Date: November 11, 2010

Re: Agenda

Undergraduate Curriculum Committee (UCC) will meet on **Friday, November 19, 2010, at 10:00 am in UC 116.**

AGENDA:

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| 1 | 1. Agenda |
| | 2. Meeting called to order by Dr. Boger. |
| 2-3 | 3. Approval of minutes from October 29, 2010. |
| 4-10 | 4. Course Inventory Add/Reinstate: PHYS 2325 University Physics I (Linkins) |
| 11-16 | 5. Course Inventory Add/Reinstate: PHYS 2326 University Physics II (Linkins) |
| | 6. New Business |
| | 7. Other Business |
| | 8. Meeting adjournment |
| | 9. Next meeting: TBD |

*Undergraduate Curriculum Committee Minutes
October 29, 2010*

Called to Order: 10:05 AM
Adjourned: 11:32 AM

Members present: George Boger, Chair; David Allard, Terry Bechtel, Tommie Hughes, Luz Mary Rincon and Tom Wagy

Members absent: Victor Govindaswamy

**Ex-Officio
Members present:** Kristi Johnson-Cobb

**Ex-Officio
Members absent:** Rosanne Stripling, Carla Snyder, John Humphrey and Peter Racheotes

Guests: Glenda Ballard and Doug Julian

1. Agenda
2. Meeting called to order at 10:05 AM by Dr. Boger.
3. Dr. Hughes moved, seconded by Dr. Wagy to approve minutes from September 24, 2010. **Motion passed.**
4. Dr. Hughes moved, seconded by Dr. Wagy to approve **Course Changes: MKT 366 Marketing Promotion** (Davis). Motion was made to add Web Enhanced to the course delivery method. The following recommendation was made: 1) On the grading scale “F” percentage should be “Below 60” rather than “Below 69”. **Motion passed with correction.**
5. Dr. Hughes moved, seconded by Dr. Rincon to approve **Course Inventory Add/Reinstate: MATH 1351 Fundamentals of Math II** (Govindaswamy). Motion was to add MATH 1351 to the course inventory. **Motion passed.**
- 6-7. Dr. Wagy moved, seconded by Dr. Allard to approve **Course Changes: SPED 417 Assessment for Student Achievement** (Ballard). Dr. Wagy then amended his motion to consider Agenda Item 7. **Course Changes: SPED 418 Research, Issues & Trends in Education** (Ballard) concurrently. Motion was to add Web Based to the course delivery method. Committee approving syllabi submitted in syllabus template format. **Motion passed.**
8. Dr. Wagy moved, seconded by Dr. Allard to approve **Course Changes: HIST 2322 World Civilization II** (Ballard). Motion was to add Web based to the course delivery method. **Motion passed.**
9. Dr. Hughes moved, seconded by Dr. Bechtel to approve **Course Inventory Add/Reinstate: ENG 2333 World Literature II** (Ballard). Motion was made to add ENG 2333 to the course inventory. The following recommendation was made: 1) Use proper call letters, ENGL. **Motion passed with correction.**
10. Dr. Bechtel moved, seconded by Dr. Allard to approve **Course Inventory Add/Reinstate: HIST 350 The History of the Vietnam War through Narrative Films** (Wagy). Motion was made to add HIST 350 to the course inventory. **Motion approved.**
11. **Course Inventory Add/Reinstate: COMM 1307 Introduction to Mass Communication** (Ballard). Request for approval withdrawn by Dr. Ballard, to be resubmitted next meeting.
12. Dr. Wagy moved, seconded by Dr. Rincon to approve **Course Changes: HIST 419 American Social and Intellectual History** (Ballard). Motion was made to add Web Enhanced to the course delivery method. The following recommendation was made: 1) Grading Scale under XI. must be in percentages. **Motion passed with correction.**

14. Dr. Allard moved, seconded by Dr. Rincon to approve **Course Changes: LEAD 310 Foundations of Leadership** (Ballard). Motion was made to change course title from “Foundations of Leadership” to “Leadership Theory and Practice”. **Motion passed.**
15. Dr. Hughes moved, seconded by Dr. Bechtel to approve **Course Changes: NURS 317: Pathophysiology for Nurses** (Kahler). Motion was to add Web Based to the course delivery method. The following recommendation was made: 1) Student Learner Outcomes to be revised. **Motion passed with correction.**
16. Old Business: **Tabled Items from September 24, 2010:**
17. Dr. Bechtel moved, seconded by Dr. Rincon to approve **Course Inventory Add/Reinstate: PHYS 2325 University Physics I** (Linkins). Motion was made to add PHYS 2325 to the course inventory. Student Learner Outcomes still not acceptable to committee. **Motion failed.**
18. Dr. Wagy moved, seconded by Dr. Bechtel to approve **Course Inventory Add/Reinstate: PHYS 2326 University Physics II** (Linkins). Motion was made to add PHYS 2326 to the course inventory. Student Learner Outcomes still not acceptable to committee. **Motion failed.**
16. New Business: Dr. Rincon moved, seconded by Dr. Wagy to invite faculty to develop changes to the Syllabus Template and present them at the next UCC meeting. **Motion passed.**
17. Other Business: None
18. Meeting adjournment at 11:32 am.
19. Next meeting: November 19, 2010 at 10:00 am in UC 116.

Respectfully Submitted,

*Sue Hughes
Recording Secretary*

Texas A&M University-Texarkana
COURSE INVENTORY ADD/REINSTATE

Effective Term: Spring 2011

Note: Deadline for submitting this form for changes to be included in the next catalog is February 15th.

College: College of Science Technology Engineering & Math

Check one: Add new course Reinstate course

Course Prefix and Number: PHYS2325

Course Title: University Physics I

SCH Value: 3SCH

If this course has a lab please indicate: Lecture hours: Lab hours:

Please check if Cross Listed with another course

Attach Cross Listed Course Syllabus and Provide:

Course Prefix:

Course Number:

Course Title:

Please check all that apply:

Grade Type: Letter S/U

Multiple Topic: Yes No

Course Delivery Method: Face to Face Web Based Web Enhanced Interactive Video

Course Type: Required Course Elective

Course Level: Undergraduate Graduate

Note: For graduate credit, please explain how this course is progressively more advanced in academic content than an undergraduate course and how it fosters independent learning enabling the graduate to contribute to a profession or field of study.

Graduate credit rationale:

Course Description:

Calculus based physics sequence for students in pre-professional programs, biology, geology, or architecture who do not expect to do additional work in engineering or physics. Topics include elementary vector algebra, mechanics, heat, thermodynamics and sound.

Prerequisites:

MATH2313 Calculus I and MATH2113 Calculus I Lab

Justification:

This course partially fulfills the core curriculum requirement for six hours in Natural Sciences.

Submitted by _____ Date _____

Approved by:

Dean of College: _____ Date: _____
(Signifies Faculty Approval)

Curriculum Committee or
Graduate Council Chairman: _____ Date: _____

Vice President for Academic Affairs: _____ Date: _____

Registrar: _____ Date: _____

Course Syllabus

Effective Date: Spring 2011

- I. **Course Number:** PHYS 2325
- II. **Course Title:** UNIVERSITY PHYSICS I
- III. **Semester Credit Hours:** 3
- IV. **Course Description:** This course will cover kinematics, dynamics, work and energy, momentum, rotational motion, angular momentum, fluids and oscillations. Prerequisites: Math 2313 (Calculus 1)
- V. **Required Textbooks/Resources:** Physics for Scientists and Engineers, 4th Edition (2008), Volume I, Douglas C. Giancoli Pearson Prentice Hall, ISBN-10: 0321553365
- VI. **Exemplary Educational Objectives:**

The Texas Higher Education Coordinating Board adopted Exemplary Educational Objectives (EEOs) to establish a common knowledge thread through the courses taught within the Texas Core Curriculum. For PHYS2325 University Physics I, the Natural Sciences the EEOs are:

- To understand and apply method and appropriate technology to the study of natural sciences.
- To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- To identify and recognize the differences among competing scientific theories.
- To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

- VII. **Student Learner Outcomes:**

Students who successfully complete PHYS 2325 will be able to:

- Apply appropriate methods and technology to the study of natural sciences
- Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- Identify and recognize the differences among competing scientific theories.
- Discuss and evaluate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- Discuss and evaluate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

VIII. Course Outline:

Physics and Measurement

Kinematics: Motion in One Dimension, Vectors

Kinematics: Motion in Two or Three Dimensions

Dynamics: Newton's Laws of Motion

Using Newton's Laws: Friction

Using Newton's Laws: Circular Motion

Universal Gravitation

Work and Energy

Conservation of Energy

Linear Momentum and Collisions

Rotational Motion

Angular Momentum

Static Equilibrium

Fluids

Oscillations

These topics are going to be covered in class. The main focus will be on problem solving.

IX. Course Requirements: The instructor expects the students to attend the classes and do the home work assignments.

X. Methods of Evaluation: Exams I and II will count 30% each and the final exam 40%

XI. Grading Scale:

Percentage	Grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

XII. Faculty Office Location and Contact Policy: TBA

XIII. Complete Course Schedule:

Week 1: Physics and Measurement

Week 2: Kinematics: Motion in One Dimension, Vectors

Week 3: Kinematics: Motion in Two or Three Dimensions

Week 4: Dynamics: Newton's Laws of Motion

Week 5: Using Newton's Laws: Friction

Week 6: Using Newton's Laws: Circular Motion. Test 1.

Week 7: Universal Gravitation

Week 8: Work and Energy

Week 9: Conservation of Energy

Week 10: Linear Momentum and Collisions

Week 11: Rotational Motion

Week 12: Angular Momentum. Test 2.

Week 13: Static Equilibrium

Week 14: Fluids

Week 15: Oscillations

Week 16: Final Exam

XIV. Student Participation:

a. Participation Policy: Students are encouraged to ask questions and form study groups.

b. Course Etiquette: Students are expected to be polite and respectful

c. Discussion Board Standards: NA

Include the following required statements in each course syllabus.

XIV. Disability Accommodations: Students with disabilities may request reasonable accommodations through the A&M-Texarkana Disability Services Office by calling 903-223-3062.

XV. Academic Integrity: Academic honesty is expected of students enrolled in this course. Cheating on examinations, unauthorized collaboration, falsification of research data, plagiarism, and undocumented use of materials from any source constitute academic dishonesty and may be grounds for a grade of 'F' in the course and/or disciplinary actions. For additional information, see the university catalog.

XVI. A&M-Texarkana Email Address: Upon application to Texas A&M University-Texarkana an individual will be assigned an A&M-Texarkana email account. This email account will be used to deliver official university correspondence. Each individual is responsible for information sent and

received via the university email account and is expected to check the official A&M-Texarkana email account on a frequent and consistent basis. Faculty and students are required to utilize the university email account when communicating about coursework.

Include the following explanation for web-enhanced and online courses.

XVII. Student Technical Assistance: NA

Texas A&M University-Texarkana
COURSE INVENTORY ADD/REINSTATE

Effective Term: Spring 2011

Note: Deadline for submitting this form for changes to be included in the next catalog is February 15th.

College: College of Science Technology Engineering & Math

Check one: Add new course Reinstate course

Course Prefix and Number: PHYS2326

Course Title: University Physics II

SCH Value: 3SCH

If this course has a lab please indicate: Lecture hours: Lab hours:

Please check if Cross Listed with another course

Attach Cross Listed Course Syllabus and Provide:

Course Prefix:

Course Number:

Course Title:

Please check all that apply:

Grade Type: Letter S/U

Multiple Topic: Yes No

Course Delivery Method: Face to Face Web Based Web Enhanced Interactive Video

Course Type: Required Course Elective

Course Level: Undergraduate Graduate

Note: For graduate credit, please explain how this course is progressively more advanced in academic content than an undergraduate course and how it fosters independent learning enabling the graduate to contribute to a profession or field of study.

Graduate credit rationale:

Course Description:

Calculus based physics sequence, for students in pre-professional programs, biology, geology, and architecture who do not expect to do additional work in engineering or physics. Covers electricity and magnetism, light, and modern physics.

Prerequisites:

PHYS 2325, MATH2313 and MATH2113

Justification:

This course partially fulfills the core curriculum requirement for six hours in Natural Sciences.

Submitted by _____ Date _____

Approved by:

Dean of College: _____ Date: _____
(Signifies Faculty Approval)

Curriculum Committee or
Graduate Council Chairman: _____ Date: _____

Vice President for Academic Affairs: _____ Date: _____

Registrar: _____ Date: _____

Course Syllabus

Effective Date: Spring 2011

- I. **Course Number:** PHYS 2326
- II. **Course Title:** UNIVERSITY PHYSICS II
- III. **Semester Credit Hours:** 3
- IV. **Course Description:** This course will cover electric charge, electric field, potential, capacitance, current, resistance, magnetism, induction, ac circuits, Maxwell's equations, light, diffraction and polarization.
Prerequisites: PHYS 2325 (UNIVERSITY PHYSICS 1)
- V. **Required Textbooks/Resources:** Physics for Scientists and Engineers, 4th Edition (2008), Volume 2, Douglas C. Giancoli Pearson Prentice Hall, ISBN-10: 0321553365
- VI. **EEOs:**

The Texas Higher Education Coordinating Board adopted Exemplary Educational Objectives (EEOs) to establish a common knowledge thread through the courses taught within the Texas Core Curriculum. For PHYS2326 University Physics II, the Natural Sciences the EEOs are:

- To understand and apply method and appropriate technology to the study of natural sciences.
- To recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- To identify and recognize the differences among competing scientific theories.
- To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

VII. Student Learning outcomes:

Students who successfully complete PHYS 2326 will be able to:

- Apply appropriate methods and technology to the study of natural sciences
- Recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.
- Identify and recognize the differences among competing scientific theories.
- Discuss and evaluate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.
- Discuss and evaluate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

VIII. Course Outline:

Electric Charge and Electric Field

Gauss's Law

Electric Potential

Capacitance, Dielectrics, Electric Energy Storage

Electric Currents and Resistance

DC Circuits

Magnetism

Sources of Magnetic Field

Electromagnetic Induction and Faraday's Law

Inductance, Electromagnetic Oscillations, and AC Circuits

Maxwell's Equations and Electromagnetic Waves

Light: Reflection and Refraction

Wave Nature of Light; Interference

The Wave Nature of Light; Interference

Diffraction and Polarization

These topics are going to be covered in class. The main focus will be on problem solving.

IX. Course Requirements: The instructor expects the students to attend the classes and do the home work assignments.

X. Methods of Evaluation: Exams I and II will count 30% each and the final exam 40%

XI. Grading Scale:

Percentage	Grade
90-100	A
80-89	B
70-79	C
60-69	D
0-59	F

XII. Faculty Office Location and Contact Policy: TBA

XIII. Complete Course Schedule:

Week 1: Electric Charge and Electric Field

Week 2: Gauss's Law

Week 3: Electric Potential

Week 4: Capacitance, Dielectrics, Electric Energy Storage

Week 5: Electric Currents and Resistance. Test 1

Week 6: DC Circuits

Week 7: Magnetism

Week 8: Sources of Magnetic Field

Week 9: Electromagnetic Induction and Faraday's Law

Week 10: Inductance, Electromagnetic Oscillations, and AC Circuits

Week 11: Maxwell's Equations and Electromagnetic Waves

Week 12: Light: Reflection and Refraction. Test 2

Week 13: Wave Nature of Light; Interference

Week 14: The Wave Nature of Light; Interference

Week 15: Diffraction and Polarization

Week 16: Final Exam

XIV. Student Participation:

- a. **Participation Policy:** Students are encouraged to ask questions and form study groups.
- b. **Course Etiquette:** Students are expected to be polite and respectful
- c. **Discussion Board Standards:** NA

Include the following required statements in each course syllabus.

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