ORGANIC CHEMISTRY II – CRN: 50026
Department of Physical and Environmental Sciences
Spring 2018

A. COURSE INFORMATION
Course number/section:  3412.002
Class meeting time:   MWF – 11:00-11:50
Class location:   BH-104
Course Website:   Most announcements, forms, handouts, lecture notes, learning materials etc. are either posted on blackboard.

B. INSTRUCTOR INFORMATION
Instructor:  Dr. Cesar A. Marquez
Office location:  CS-206
Office hours:  MTWRF – 13:00-14:00
Telephone:  (361) 825 5701
e-mail:  cesar.marquez@tamucc.edu
Appointments:  By email

C. COURSE DESCRIPTION
The structure, nomenclature, synthesis, reactions and reaction mechanisms of the principal classes of organic compounds. Stereochemistry and spectroscopy of organic compounds. Designed only for science major.

D. PREREQUISITES AND COREQUISITES
Prerequisites
Organic Chemistry I (CHEM 3411)
Co-requisites
Student Laboratory Safety Training (SMTE-0093)

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
Required Textbook(s)
This course uses McGraw-Hill CONNECT as online resources and the book “Organic Chemistry” by Janice G. Smith; 5th ed. as textbook.

Purchase options at the bookstore:
1. CONNECT 2 Year Access Card for Organic Chemistry ISBN #9781259636424
2. Hardcover text w/ CONNECT access for Organic Chemistry ISBN #9781260014112
3. Looseleaf text w/ CONNECT access for Organic Chemistry ISBN #9781260014129

Purchase option online:
Go the BlackBoard section of the course and once there, go to the Content Folder. Click on any LearnSmart assignment to get into CONNECT and follow the instructions.

Registration
Go the BlackBoard section of the course and once there, go to the Content Folder. Click on any LearnSmart assignment to get into CONNECT and follow the instructions. If you have purchased your CONNECT access at the bookstore, you will be asked for it.

Technical Support:
If you need any assistance with passwords, codes, synchronization with blackboard, etc. please contact McGraw-Hill Education Customer Experience Group (CXG) at:

(800) 331-5094 or www.mhhe.com/support

Please be sure to get your case number for future reference if you call the CXG line.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to improve learning. The process begins by describing student’s learning outcomes (they focus on what you are expected to learn) like the ones described below for this course. By measuring how well you are accomplishing these students’ learning outcomes the instructor can take appropriate actions to enhance your learning.

It is expected that completion of CHEM 3412 will enable students learning the following specific topics of organic chemistry
• Molecular spectroscopy to identify organic compounds
• Organic functionality and aspects of stereochemistry
• Modern aspects of chemical bonding & molecular structure
• Prediction of products from organic reactions
• Understanding reaction mechanisms
• Understanding of organic syntheses
• Understanding the importance of thermodynamic in organic reactions

G. MAJOR COURSE REQUIREMENTS AND GRADING

The course includes lectures and laboratories. They will be graded separately, and the final course grade (1000pts) will consider the following distribution:

Lectures Part (750pts): There will be regular on-line assignments during the course through CONNECT (200pts), including different kinds of exercises. Midterm exams (4 exams, 100pts each, total 400pts) will include the material that has been covered in class by that time. There will be a final exam and it is comprehensive (150pts).

<table>
<thead>
<tr>
<th>Activity</th>
<th>Score</th>
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<tbody>
<tr>
<td>CONNECT</td>
<td>200</td>
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<tr>
<td>Midterm Exams (× 4)</td>
<td>400</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>750</strong></td>
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Attendance is mandatory and therefore it will not be considered when grading.

Laboratory Part (250pts): After completed all lab experiments, assignments and exam, your instructor will grade your performance. All complains and concerns about the lab grade should be directed to the lab instructor. You will receive more information about the Organic Chemistry I Laboratory Course (CHEM-3411.101) in the lab syllabus. The laboratory part of this course is mandatory; a course final grade “F” will be assigned to students absent more than two laboratories without official excuse or justification.

Final letter grading for the lecture course will be as follows: A>90%, B >80%, C>70%, D>60%,
F < 60%.

**H. COURSE CONTENT/SCHEDULE**

The schedule below is a preliminary outline of the course. It is your responsibility to keep up with changes to this schedule. The reading and problems assignments that will be assigned in class should be completed before the next class meeting. Failure to stay current on reading and problem assignments will greatly affect your ability to keep up during lecture and, therefore, will have an indirect effect on your grade in this course.

<table>
<thead>
<tr>
<th>Weeks</th>
<th>Topic</th>
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<tbody>
<tr>
<td>January 17</td>
<td>Introduction and Syllabus Discussion</td>
</tr>
<tr>
<td>03-06</td>
<td>CH-13 Mass Spectrometry and Infrared Spectroscopy</td>
</tr>
<tr>
<td>03-06</td>
<td>CH-14 Nuclear Magnetic Resonance Spectroscopy</td>
</tr>
<tr>
<td>03-06</td>
<td>CH-12 Oxidation and Reduction</td>
</tr>
<tr>
<td>Feb 12</td>
<td>Exam 01</td>
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<tr>
<td>07-10</td>
<td>CH-16 Conjugation, Resonance and Dienes</td>
</tr>
<tr>
<td>07-10</td>
<td>CH-17 Benzene and Aromatic Compounds</td>
</tr>
<tr>
<td>07-10</td>
<td>CH-18 Reactions of Aromatic Compounds</td>
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<tr>
<td>Mar 09</td>
<td>Exam 02</td>
</tr>
<tr>
<td>11-14</td>
<td>CH-19 Carboxylic Acids and the Acidity of O–H Bond</td>
</tr>
<tr>
<td>11-14</td>
<td>CH-20 Introduction to Carbonyl Chemistry</td>
</tr>
<tr>
<td>11-14</td>
<td>CH-21 Aldehydes and Ketones</td>
</tr>
<tr>
<td>Apr 09</td>
<td>Exam 03</td>
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<tr>
<td>15-18</td>
<td>CH-22 Carboxylic Acids and Their Derivatives</td>
</tr>
<tr>
<td>15-18</td>
<td>CH-23 Substitution Reactions of Carbonyl Compounds</td>
</tr>
<tr>
<td>15-18</td>
<td>CH-24 Carbonyl Condensation Reactions</td>
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<tr>
<td>May 02</td>
<td>Exam 04</td>
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<tr>
<td><strong>May 04</strong></td>
<td><strong>Final Exam (BH-104, 11:00–13:30)</strong></td>
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*Note:* Changes in this course schedule may be necessary and will be announced to the class by the instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.
I. **COURSE POLICIES**

**Attendance/Tardiness**
This course is mandatory, and the student is expected to be on time and attend every class. If absent, it is the responsibility of the student to obtain missed information from a classmate. Missed information includes not only lecture notes, but also any possible information regarding syllabus changes. The student is expected to arrive on time prepared to take notes, *i.e.*, with pen, paper, and colored markers/pencils.

**Late Work and Make-up Exams**
There is no make-up exam for this course. Students with a university approved scheduled absence (athletics, military duty, etc.) MUST contact the instructor well in advance of the scheduled absence. Exams may be taken early in those specific cases. Students who do not arrange to take the exam ahead of time will not be eligible for this special consideration. A written excuse from the university department involved or the Office of the Dean of Students is required.

**Extra Credit**
There is no extra credit in this course.

**Cell Phone Use**
Cell phones and laptops are allowed during lectures. Before you enter the lecture hall turn OFF your cellular phone! Beepers must also be turned off or put on silent mode. Electronic interruptions absolutely will NOT be allowed.

**Food in Class**
Food or drinks are not allowed in this course.

**Missed Exam**
Students who do not arrange to take the exam ahead of time will not be eligible for this special consideration. A written excuse from the university department involved or the Office of the Dean of Students is required.

**Participation**
Students are expected to participate during the classes, this way contributing to the learning process of the group. The classes are designed as an active environment where every new
concept is applied to real synthetic examples. The students are expected to participate as a team, applying critical thinking to the resolution of the different practical challenges proposed.

J. COLLEGE AND UNIVERSITY POLICIES

Academic Integrity (University)
University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

Classroom/Professional Behavior
Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

Statement of Civility
Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

Deadline for Dropping a Course with a Grade of W (University)
The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the
class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day to drop a course.

**Grade Appeals (College of Science and Engineering)**

As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

**Disability Services**

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 call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

http://disabilityservices.tamucc.edu/

**Statement of Academic Continuity**
In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

**K. OTHER INFORMATION**

**Academic Advising**

The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**L. GENERAL DISCLAIMER**

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.