A. COURSE INFORMATION

Course Number/Section: CHEM 3412.001  
Class Meeting Time: MWF 9:00 AM – 9:50 AM  
Class Location: ONCR-115  
Course Website: https://bb9.tamucc.edu

B. INSTRUCTOR INFORMATION

Instructor: Dr. Jai Prakash  
Office Location: CS 210  
Office Hours: MTWR 2:00 PM – 3:15 PM  
Telephone: 361-825-3293  
e-mail: jai.prakash@tamucc.edu  
Appointments: by request

C. COURSE DESCRIPTION

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

D. PREREQUISITIES AND COREQUISITES

Prerequisites
1. Requires Registration in Lec/Lab  
2. Organic Chemistry I (CHEM 3411)

Co-requisites
Student Laboratory Safety Training (SMTE-0093)

E. REQUIRED TEXTBOOK(S) AND SUPPLIES

You can visit the Top Hat Overview (https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don’t receive this email, you can register by simply visiting our course website.

Top Hat may require a paid subscription, and a full breakdown of all subscription options available can be found here: www.tophat.com/pricing. Your textbook will be applied at checkout for an additional price. Don’t worry if you don’t see any content in the course right away, I will make it available to you as we progress through the semester.

We will be using the Top Hat (www.tophat.com) classroom response system in class. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message. Additionally, we will be using the custom-built interactive textbook “Organic Chemistry I” within Top Hat for this class.
Materials at the bookstore

3. Top Hat 1 Semester Subscription ISBN: 978-0-9866151-0-8 (in class response system)

Technical Support

Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in app support button, or by calling 1-888-663-5491.

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

1. Molecular spectroscopy to identify organic compounds
2. Organic functionality and aspects of stereochemistry
3. Modern aspects of chemical bonding & molecular structure
4. Prediction of products from organic reactions
5. Understanding reaction mechanisms
6. Understanding of organic syntheses
7. Understanding the importance of thermodynamic in organic reactions

G. INSTRUCTIONAL METHODS AND ACTIVITIES

The course is given by face-to-face lectures augmented with PowerPoint slides. There will be THREE lecture exams (best two will be part of your final grade i.e., lowest of the three will be dropped), regular in-class TopHat QUIZZES, and a FINAL EXAM. There is also a LABORATORY associated with this course which is graded separately by your lab instructor.

H. GRADING POLICY

Lecture Evaluation (750 points):

<table>
<thead>
<tr>
<th>Exam</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Exam I</td>
<td>150</td>
</tr>
<tr>
<td>Exam II</td>
<td>150</td>
</tr>
<tr>
<td>Exam III</td>
<td>150</td>
</tr>
<tr>
<td>Best Two Exams (Total)</td>
<td>300</td>
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<tr>
<td>Final Exam</td>
<td>300</td>
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<tr>
<td>TopHat Quizzes</td>
<td>150</td>
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</tbody>
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Laboratory Evaluation (250 points):

<table>
<thead>
<tr>
<th>Laboratory</th>
<th>Points</th>
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<tbody>
<tr>
<td>Laboratory</td>
<td>250</td>
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</table>

Grand Total 1000
Final letter grading for the course will be as follows: $A \geq 90\%$; $B \geq 80\%$; $C \geq 70\%$; $D \geq 60\%$; $F < 60\%$.

**Note:** 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.

### I. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Introduction and Syllabus Discussion, CH 16</td>
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<tr>
<td>Week 2</td>
<td>CH 16</td>
</tr>
<tr>
<td>Week 3</td>
<td>CH 17</td>
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<tr>
<td>Week 4</td>
<td>CH 17 &amp; 19</td>
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<tr>
<td>Week 5</td>
<td>CH 19</td>
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<tr>
<td>Week 6</td>
<td>CH 20</td>
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<tr>
<td>Week 7</td>
<td>CH 20 &amp; 21</td>
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<tr>
<td>Week 8</td>
<td>Spring Break</td>
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<tr>
<td>Week 9</td>
<td>CH 21</td>
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<tr>
<td>Week 10</td>
<td>Limited Classes, ACS National Meeting</td>
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<tr>
<td>Week 11</td>
<td>CH 22</td>
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<tr>
<td>Week 12</td>
<td>CH 24</td>
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<tr>
<td>Week 13</td>
<td>CH 24 &amp; 25</td>
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<tr>
<td>Week 14</td>
<td>CH 25</td>
</tr>
<tr>
<td>Week 15</td>
<td>CH 26</td>
</tr>
<tr>
<td>Week 16</td>
<td>CH 26, Review Sessions</td>
</tr>
<tr>
<td>May 11 (8:00 AM – 10:30 AM)</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Exam Schedules:**

- **Exam 1:** February 19
- **Exam 2:** March 18
- **Exam 3:** April 15
- **Final Exam:** May 11 (8:00 AM – 10:30 AM at ONCR-115)
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, \textit{i.e.}, with pen, paper, and colored markers/pencils.

Late Work and Make-up Exams

There is no make-up exam for this course. You will receive “zero” for every missed exam. 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. However, electronic interruptions absolutely will NOT be allowed.

Food in Class

Food or drinks are not allowed in this course.

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.

Student Responsibility

It is the student’s responsibility to read and be aware of the contents of this syllabus and the course website on Blackboard. Announcements and changes are communicated in the classroom, Blackboard, and/or emails.
K. COLLEGE AND UNIVERSITY POLICIES

☐ Academic Integrity (University)

It is expected that university students will demonstrate a high level of maturity, self-direction, and ability to manage their own affairs. Students are viewed as individuals who possess the qualities of worth, dignity, and the capacity for self-direction in personal behavior.

See Full University Policy at http://catalog.tamucc.edu/content.php?catoid=10&navoid=313#Academic_Integrity

☐ 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 the 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.

  In choosing to take this course, you are agreeing to abide by the course rules, regulations, and standards. This includes agreeing to be respectful to your instructors and fellow students. Conduct that is disruptive or disrespectful will not be tolerated and is grounds for dismissal from the class. Should you have concerns or questions, you are to discuss them with the instructor as soon as possible. However, you are bound by these rules, regulations, and standards from the first day of the class throughout the duration of the course.

- **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.