CATALOG DESCRIPTION: A continuation of CHE 210 Organic Chemistry I. Involves the study of the properties, characteristics, and reaction mechanisms of carbonyl-containing compounds, alcohols, ethers, alkyl halides, amines, phenols, carbohydrates, and proteins. Emphasis on the identification of organic compounds using instrumental techniques such as IR, NMR, UV, and chromatography. Laboratory work includes methods of synthesis, isolation, purification, identification of organic compounds, and proper documentation of data. Recommended for science majors.

PREREQUISITE(S): CHE 210-Organic Chemistry I

COREQUISITE(S): None

CREDITS: 4 HOURS: 3 hours lecture and 3 hours lab

REQUIRED TEXT(S): OWLv2 for McMurry's Organic Chemistry, 9th

OWLv2 for A Small Scale Approach to Organic Laboratory Techniques

CENGAGE COURSE CODE:

SUPPLEMENTAL MATERIALS:

INSTRUCTOR INFORMATION:

OFFICE HOURS:
**CORE COMPETENCIES:** The following core competencies are embedded in this curriculum: Communicate effectively in both speech and writing; Apply appropriate mathematical and statistical concepts and operations to interpret data to solve problems; Use scientific method of inquiry, through the acquisition of scientific knowledge; Use computer systems or other appropriate forms of technology to achieve educational and personal goals; Address an information need by locating, evaluating and effectively using information.

**LEARNING ASSESSMENT**

<table>
<thead>
<tr>
<th>Student Learning Outcomes:</th>
<th>Suggested Means of Assessment:</th>
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<tbody>
<tr>
<td>Apply problem-solving and critical thinking to predict the products of organic chemical reactions and assess the different reaction conditions for organic reactions to occur</td>
<td>Exams, quizzes, homework, hands-on laboratory activities, and laboratory reports</td>
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<tr>
<td>Propose reaction mechanisms and predict products and reaction conditions for the reactions involving carbonyl-containing compounds, alcohols, ethers, alkyl halides, amines, aromatics, phenols, carbohydrates, and proteins</td>
<td>Exams, quizzes, homework, hands-on laboratory activities, and laboratory reports</td>
</tr>
<tr>
<td>Explain the operation, theories, and uses of instrumental techniques (i.e., mass spectrometer, ultraviolet spectrometer, liquid chromatograph) to identify and elucidate the structure of organic compounds</td>
<td>Exams, quizzes, homework, hands-on laboratory activities, and laboratory reports</td>
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<tr>
<td>Demonstrate effective oral and written communication skills</td>
<td>Homework, hands-on laboratory activities, and laboratory reports</td>
</tr>
<tr>
<td>Conduct basic research and literature searches through the use of the library, internet, and other resources</td>
<td>Homework and laboratory reports</td>
</tr>
<tr>
<td>Use the scientific method to conduct laboratory experiments</td>
<td>Hands-on laboratory activities and laboratory reports</td>
</tr>
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**GRADING SYSTEM:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 &lt; 100</td>
</tr>
<tr>
<td>B+</td>
<td>87 &lt; 90</td>
</tr>
<tr>
<td>B</td>
<td>80 &lt; 87</td>
</tr>
<tr>
<td>C</td>
<td>70 &lt; 77</td>
</tr>
<tr>
<td>D</td>
<td>60 &lt; 70</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
</tr>
</tbody>
</table>

**DISABILITY SERVICES STATEMENT:** Warren County Community College is committed to providing all students equal access to learning opportunities. Student Services is the campus office that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students who have, or think they may have, a disability (e.g. mental health, learning, vision, hearing, physical or systemic), are invited to contact Student Services to arrange a confidential discussion at (908) 835-2300 or by email at StudentServices@Warren.edu as soon as possible. Students registered for Disability Services with Student Services, who have
requested accommodations for the current semester will be provided with an electronic letter
detailing individual accommodations and are encouraged to contact the instructor early in the
semester to discuss accommodations outlined in their letter.

INSTRUCTIONAL SUPPORT CENTER: The Instructional Support Center (ISC), located in
Room 105 across from the library, provides academic support at no cost to WCCC students and
is available for courses in which they are currently enrolled. The ISC is staffed with trained
professional and peer tutors who are ready to help you understand and succeed. For scheduling
or further information, visit the ISC in person, online at http://www.warren.edu/tutoring/ or by
telephone at (908)835-2354.

STATEMENT AND POLICY ON CHEATING, PLAGIARISM AND ACADEMIC
DISHONESTY: Students are required to perform all the work specified by the instructor, and
are responsible for the content and integrity of all academic work submitted. A violation of
academic integrity will occur if a student: (1) knowingly represents work of others as one’s own,
(2) uses or obtains unauthorized assistance in any academic work, (3) gives fraudulent assistance
to another student, or (4) furnishes false information or other misuse of college documents.

In cases of suspected violation of academic integrity, the incident is to be reported to the Office
of Academics. A student found guilty of violating the rule of academic integrity by the Vice
President of Academics will be considered to have failed in personal obligation to the College;
such failure will be subject to disciplinary action by the College. Unless otherwise notified, the
instructor will allow students who are pending disciplinary action to attend class.

REQUIRED FORMAT FOR RESEARCH PAPERS: Research papers written for any
Warren County Community College class must conform to the required documentation style.
Papers written for humanities (and some social science) classes will follow the most recent
edition of the Modern Language Association (MLA) in-text citation and bibliographic methods.
Social science and science papers will require the use of the most recent edition of the American
Psychological Association (APA) in-text citation and bibliographic methods.

Please consult with your instructor regarding the correct documentation style to use in his/her
class.

ATTENDANCE POLICY: Students are expected to attend all class sessions of courses in which
they are enrolled and are responsible for all material presented in class and all homework
assignments.

Grades are based on the quality of work completed in meeting the requirements for a particular
course, as stated in the course syllabus and catalog description.

Excessive absence may be considered sufficient cause for dismissal from class by an instructor or
other appropriate college staff member. Any decision to exclude a student from class or the
College due to excessive absence shall be subject to review by the President in accordance with
established procedures. Students who have not attended class are not entitled to a refund of tuition.
Library Hours

Monday-Thursday 8am-8pm
Friday 8am-3pm

Check the Academic Calendar for specific holiday dates. Exceptions may apply during breaks and summer sessions. Any changes to the Library’s hours are posted on the Library’s web page and near the Library doors.

- **Passwords and Log-Ins** - The Library is responsible for resetting passwords for your Network account (email, computers, Wi-Fi, library resources, and printing). This cannot be reset over the phone. Please stop by the Library for help.

- **College IDs** - College IDs are required for all students. The Library is responsible for producing all ID cards. To get an ID card you must bring to the Library a current copy of your class schedule and another form of ID. Your student ID is also your library card and is needed to check materials out of the Library. Your first ID card is free and replacement cards are issued at a cost to the student.

- **Inter-Library Loan (ILL)** - The Library participates in a nation-wide inter-library loan program which is available free to all students and faculty. You can either submit ILL requests via the Internet (form available on the Library’s web page) or in person at the circulation desk.

**TOPICAL OUTLINE:**
Che 211  Organic Chemistry II
Course Master Syllabus

Grading Methods:

Itinerary: