

**The University of Toledo**  
*College of Arts and Sciences*

**Transfer Guide for Owens Community College Students  
Intending to pursue the B.A. or B.S. in Chemistry from The University of Toledo**

Based on The University of Toledo 2006-2008 General Catalog  
and the Owens Community College 2006-2007 Catalog

**General Information**

The College of Arts and Sciences has prepared this guide to provide accurate information to enable Owens Community College students to make informed decisions regarding their educational objectives.

The information provided here is best used in conjunction with the online *Course Applicability System (CAS)* at [www.transfer.org](http://www.transfer.org). CAS allows students to generate *Cross-Reference Planning Guides* for the particular major(s) they plan to complete at The University of Toledo. The planning guides show all courses that can be completed at Owens Community College toward the desired major(s) at The University of Toledo. CAS is most accurate when students enter the courses that they have already completed, as well as the courses they plan to take, at Owens Community College before generating a *Cross-Reference Planning Guide*.

If you are a student who has completed course work at schools other than Owens Community College and your ultimate goal is to seek a degree in chemistry from The University of Toledo, it will be in your best interest to meet with Eve Crandall (419-530-2671 or [eve.crandall@utoledo.edu](mailto:eve.crandall@utoledo.edu)) before making your course selections at Owens. UT may accept transfer courses that Owens does not.

**Student Responsibility**

There is much more information on degree requirements and academic policies than can be provided in this document. The UT catalog is available in its entirety on the web at <http://catalog.utoledo.edu/>. Current UT students, as well as future UT students, are expected to read and understand the information in the catalog.

**When to Transfer**

Students may transfer to the College of Arts and Sciences at The University of Toledo at any time, provided they have a transfer GPA of 2.0 or higher. There is no requirement that students complete any specific courses or number of credit hours before transferring. Alternatively, students may complete an associate's degree of their choice at Owens before transferring to The University of Toledo.

## **Completing a Bachelor's Degree in Four Years**

Many major-level courses in chemistry are offered only once a year. Therefore, *we recommend that students who wish to complete the B.A. or B.S. in Chemistry in four years limit their studies at Owens Community College to one year only.* Students on a four-year plan of study should transfer to UT no later than the fall semester of their sophomore year and should be prepared to attend classes full-time with good availability all five days of the week.

## **Completing a Bachelor's Degree in more than Four Years**

We are aware that many students will pursue their degrees on a part-time basis. Some students will need to build skills in mathematics before taking major-level courses. Students in these situations should expect to attend classes for more than the standard 8 semesters, and should follow the course recommendations for the *Extended Plan of Study* below.

## **Acceptance of Transfer Credit by The University of Toledo**

### ***Coursework completed through summer semester 2005***

- UT accepts individual courses graded at a C or better
- UT accepts courses graded at a D- or better provided that the student has earned an associate's degree from OCC with a cumulative GPA of 2.0 or greater

### ***Coursework completed in fall semester 2005 and forward***

- UT accepts individual courses graded at a D- or better
- College of Arts and Sciences requires a C or better in Owens ENG 111 and 112

## **Pre-registration Issues to Consider**

### ***Post-Secondary Enrollment Options Program (PSEOP) Credit***

High school graduates who have completed college credits while still in high school should contact Eve Crandall (419-530-2671 or [eve.crandall@utoledo.edu](mailto:eve.crandall@utoledo.edu)) to discuss their individual situations before enrolling in additional courses at OCC.

### ***Advanced Placement (AP) Credit***

AP exams may be offered through your high school. The University of Toledo grants college credit for students who score sufficiently high on these examinations. UT does not charge to post AP credit to students' transcripts. It is possible to earn AP credit for any or all of the first-year courses that are recommended below. Please see UT's AP awards table at:

<http://www.undergradadmission.utoledo.edu/pages/advancedplacement.asp>

### **Three Degree Options in Chemistry at UT and Mathematics**

The University of Toledo offers the B.A. and B.S. in Chemistry and the B.A. in Chemistry with a concentration in Biochemistry. Students pursuing any of these three majors should follow the plan of study provided below. The main difference between the programs that impacts students in the first year of study is in the required mathematics courses.

The ***B.A. and the B.S. in Chemistry*** degrees require MATH 1830 and 1840 *Calculus for Mathematicians, Scientists and Engineers I & II*. Owens does not offer an equivalent sequence to 1830 and 1840, but MTH 131 and 232 (UT MATH 1850 and 1860) are acceptable substitutions.

The ***B.A. in Chemistry with the concentration in Biochemistry*** requires MATH 1850 and 1860 *Calculus I & II* or MATH 1750 and 1760 *Math for the Life Sciences I & II*. Owens does not offer an equivalent sequence to 1750 and 1760.

Therefore, all chemistry majors who begin their studies at OCC will by necessity need to take the OCC equivalents of MATH 1850 and 1860 (MTH 131 and 232).

### **1 + 3 Plan of Study for B.A. and B.S. in Chemistry**

#### ***Fall Semester—15 to 16 credits***

ENG 111      3.0 credits      (UT ENGL 1110)  
CHM 121      5.0 credits      (UT CHEM 1230/1280)  
MTH 131      5.0 credits      (UT MATH 1850)

Foreign Language or course chosen from *Distributive Requirements* below

#### ***Spring Semester—18 credits***

ENG 112      3.0 credits      (UT ENGL 1130)  
CHM 122      5.0 credits      (UT CHEM 1240/1290)  
MTH 232      5.0 credits      (UT MATH 1860)  
PHY 221      5.0 credits      (UT PHYS 2130-B.S. Chemistry students only)

## **Extended Plan of Study for B.A. and B.S. in Chemistry**

Completion of the major program will require a minimum of 3 years of sequenced major-level chemistry courses after completion of CHM 122.

Students who need to build their skills in mathematics should take a placement test at Owens Community College and *begin with the appropriate course in the following sequence: MTH 095, 110, 129, 130, 131, 232*. Credits for MTH 095, 110 and 129 are not applicable to the degree at UT.

We recommend that students who are attending part-time or building skills in mathematics also take courses from the recommended options in the *Skill Area* and *Distributive Requirements* below. We do not recommend that students complete all the *Skill Area and Distributive Requirements* before transferring to The University of Toledo.

## **College of Arts and Sciences Skill Area Requirements**

### ***Composition***

All majors require that students take ENG 111 and 112. A grade of C or better is required in both courses.

### ***Foreign Language***

All students seeking to earn a degree offered by the College of Arts and Sciences at The University of Toledo must demonstrate proficiency at an intermediate level in a second language. This requirement can be satisfied by taking courses in a single foreign language through the fourth course, numbered 212 at OCC or 2150 at UT. Please see the College of Arts and Sciences *Foreign Language Recommendations* for more information.

## **College of Arts and Sciences Distributive Requirements**

***A. Humanities: 15.0 semester credits, no more than 2 courses from a single discipline***

### **1 course in history**

AAS 101 (US), HIS 101, 102, 151, 152, 201, 202, 205, 210, 220, 250, 270 (US), 290

### **1 course in fine arts**

ART 101, 105, HUM 100, MUS 100, 101, 102 (US), 104, 105 (NW), THE 100, 131

### **1 course in English literature**

ENG 200, 210, 215 (US), 220, 225 (US), 251, 252, 255, 260 (US), 266, 267, 280

### **2 courses in elective humanities**

Any courses listed above, plus HUM 200, 275 (NW), and all ART, PHL and THE  
(Note: UT will not grant credit for both THE 107 and 131)

***B. Social Sciences: 9.0 semester credits, no more than 2 courses from a single discipline***

ECO 111, 201, 202, GPH 105, 106, 108, PSY 101, SOC 100, 101, 201, 220 (US), 250 (NW), GOV 111

**University Multicultural Requirement**

All degrees offered at The University of Toledo require that students take two multicultural courses. Courses listed above that meet the US Diversity requirement are indicated with the (US) code. Courses that meet the Non-Western Diversity requirement are indicated with the (NW) code.

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