



Memorandum

To: General Chemistry Professionals

From: Brian Leskiw, Ph.D.
Faculty Lead, General Chemistry TAG Review/Revision Panel

Re: Updates to the General Chemistry Transfer Assurance Guide (TAG) Course Learning Outcomes

Date: September 30, 2016

Background

The Ohio Articulation and Transfer Network (OATN) sent a request to me as the General Chemistry Transfer Assurance Guide (TAG) Review Panel lead last summer to determine if the General Chemistry TAG courses were in need of a review/update. At that time, I informed the OATN staff that there was no need to update the TAG course learning outcomes for General Chemistry I and II. However, more recently, the statewide conversation regarding the proposed Ohio Transfer Module Natural Sciences lab guidelines and the role of virtual labs in science majors necessitated our review panel to convene an in-person meeting. Our group was also aware that the Organic Chemistry TAG Review Panel met a few weeks prior to our panel meeting.

Updates

In the attached, you will find the revised TAG learning outcomes for OSC008 General Chemistry I and OSC009 General Chemistry II. Basically, the faculty panel's changes to the TAG course outcomes centered on three primary objectives:

1. Clarification and consistency of laboratory learning outcomes in accordance with the American Chemical Society (ACS) Public Policy Statement on the Importance of Hands-on Laboratory Science,
2. Consistency based on the role of General Chemistry I and II being pre-requisite courses for the Organic Chemistry TAG course sequence (OSC010), and
3. Clarification of core competencies/topics and the inclusion of the 'behavior of gases' in the General Chemistry I course.

Given that many of the programs across the state of Ohio are already ACS accredited, the accreditation review clearly articulates a hands-on laboratory experience. After a thoughtful and in-depth discussion among the panel members, we came to an agreement that the hands-on experimental labs are especially important for the General Chemistry I and II TAG courses as they serve as the foundation to our chemistry and other STEM-related majors.

Adding the 'behavior of gases' as a new competency acknowledges not only the importance of this topic, it reflects the fact that this topic was previously recommended within the curriculum and is now to be officially included within the list of core competencies for OSC008.

If you have any questions, please feel free to contact me at bdleskiw@ysu.edu or (330) 941-1562.

I wish to express my thanks for the dedicated work of the General Chemistry TAG Faculty Review/Revision Panel for their collaboration in updating the learning outcomes. The faculty members of the General Chemistry TAG Review/Revision Panel included: Brian Leskiw (Revision/Review Panel Lead, Youngstown State University), John Blaha (Columbus State Community College), Hanbin Mao (Kent State University), Mark Cybulski (Miami University), Paul Custer (Stark State College), Michele Turner (The University of Akron), and Janice Denton (University of Cincinnati).

Implication to Your TAG Courses

Although the spirit of the previous learning outcomes/competencies continues to be implemented for both courses, the Statewide Faculty Panel members recommended that, based on the better aligned course criteria, institutions with a course already approved for the respective TAG course be required to resubmit for re-validation. Many of the TAG approved courses were reviewed and approved 4 to 11 years ago. OATN staff provided the Panel with a list of institutions and courses based on the initial approval dates. Based on that information, each institution has been assigned a submission and review schedule. Each institution will be granted one year to submit the two courses together at the same time. Approval of those courses will be required in order for students to be able to continue taking advantage of the statewide TAG course equivalency guarantee.

If courses happen not to be approved within a year, the current TAG approvals will be expired by the OATN staff. The Review Panel greatly appreciates your coordination and cooperation to stay on track and proactively get the submission work started early on your assigned schedule. Delay in this process will not only result in disservice to our students but also put unnecessary burden on both the submitter and the Review Panel.

According to the OATN staff, their [TAG course description website](#) provides submission templates that you need in order to work with your TAG coordinator. Should you have any questions about the submission process, please contact Hideo Tsuchida at (614) 644-0642 or htsuchida@highered.ohio.gov or Michelle Blaney at (614) 644-9601 or mblaney@highered.ohio.gov at the Ohio Articulation and Transfer Network.

Below is the resubmission schedule for your institution:

January 2017-October 2017 (Winter, Spring, and Fall Review Cycles)	
Bowling Green State University	OSC008 – CHEM 1250 OSC008 – CHEM 1350 (not currently approved) OSC009 – CHEM 1270, 1280 OSC009 – CHEM 1370, 1380 (not currently approved)
Central State University	OSC008 – CHM 1201 OSC009 – CHM 1202
Cuyahoga Community College	OSC008 – CHEM 1300, 130L OSC008 – CHEM 130H OSC009 – CHEM 1310, 131L OSC009 – CHEM 131H
Eastern Gateway Community College	OSC008 – CHM 102 OSC009 – CHM 103
Edison State Community College	OSC008 – CHM 121S OSC009 – CHM 122S
Kent State University	OSC008 – CHEM 10060, 10062 OSC008 – CHEM 10960 (not currently approved) OSC009 – CHEM 10061, 10063 OSC009 – CHEM 10961 (not currently approved)
Lakeland Community College	OSC008 – CHEM 1500 OSC009 – CHEM 1600
Lorain County Community College	OSC008 – CHMY 171 OSC009 – CHMY 172
Miami University	OSC008 – CHM 141, 144 OSC009 – CHM 142, 145
Northwest State Community College	OSC008 – CHM 201 OSC009 – CHM 202
Rio Grande Community College	OSC008 – CHM 15005 OSC009 – CHM 15505
Shawnee State University	OSC008 – CHEM 1141 OSC009 – CHEM 1142
Sinclair College	OSC008 – CHE 1211 (not currently approved) OSC009 – CHE 1221 (not currently approved)
Stark State College	OSC008 – CHM 141 OSC009 – CHM 142
Terra State Community College	OSC008 – CHM 1610, 1615 OSC009 – CHM 1620, 1625
The University of Akron	OSC008 – 3150 151, 3150 152 OSC009 – 3150 153, 3150 154
The University of Toledo	OSC008 – CHEM 1230, 1280 OSC009 – CHEM 1240, 1290

Youngstown State University	OSC008 – CHEM 1515 OSC009 – CHEM 1516
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January 2018-October 2018 (Winter, Spring, and Fall Review Cycles)	
Central Ohio Technical College	OSC008 – CHEM-110 OSC009 – CHEM-111
Cincinnati State Technical and Community College	OSC008 – CHE 121, 131 OSC009 – CHE 122, 132
Columbus State Community College	OSC008 – CHEM 1171 OSC009 – CHEM 1172
Marion Technical College	OSC008 – CHM 1200 OSC009 – CHM 1250
Ohio University	OSC008 – CHEM 1510 OSC009 – CHEM 1520
Owens Community College	OSC008 – CHM 121 OSC009 – CHM 122
Southern State Community College	OSC008 – CHEM 1151, 1161 OSC009 – CHEM 1152, 1162
The Ohio State University	OSC008 – CHEM 1210 OSC009 – CHEM 1220
University of Cincinnati	OSC008 – CHEM 1040, 1040L OSC009 – CHEM 1041, 1041L
Washington State Community College	OSC008 – CHEM 1510, 151L OSC009 – CHEM 1520, 152L
Wright State University	OSC008 – CHM 1210, 1210L OSC009 – CHM 1220, 1220L

January 2019-October 2019 (Winter, Spring, and Fall Review Cycles)	
Clark State Community College	OSC008 – CHM 1210 OSC009 – CHM 1220
Cleveland State University	OSC008 – CHM 261, 266 OSC009 – CHM 262, 267
North Central State College	OSC008 – CHEM 1210 (approval will be based on OSU's TAG course) OSC009 – CHEM 1220 approval will be based on OSU's TAG course)
Zane State College	OSC008 – CHEM 1210 OSC009 – CHEM 1220

Thank you very much.

Attachment 1