

Minutes  
CHEMISTRY IFCC Meeting  
Thursday, September 27, 2018  
Central GA Technical College, Macon Campus  
33 Macon Tech Drive, Macon, Georgia 31206  
9 am – Noon - Building I Quad A

The meeting was called to order at 9:18 am. Those attending are listed below and introductions were made. Each person shared what he/she taught and a little about the courses offered at his/her college.

The minutes were reviewed and approved as written.

- Transfer/articulation was discussed; articulation appears to be happening at the local level, but more statewide agreements are needed.
- There was also concern about the ACS scores being sent to (or from) a USG Institution (when student is transferring to/from a USG or private institution).
  - A recommendation was made (Jan Thompson/Rebecca White): if a student signs a release or provides a written request to have his/her ACS score sent to a TCSG institution or another institution (USG/out of state/private), the college/instructor should provide the score to the student and/or the requested institution. The motion was unanimously approved.
- Skills USA – judges, runners, etc. are needed; March 21-23, 2019 in Atlanta (Atlanta Tech); please contact Alicia Anderson if you are interested – [aanderson@columbustech.edu](mailto:aanderson@columbustech.edu) (or you may contact your campus Skills USA representative)
- The Vernier Chemistry system was mentioned; Gordon is using this system with open source, so it minimizes the cost to students - <https://www.vernier.com/chemistry/>. Chattahoochee is also using this system and is having good results.
- Open Stax Chemistry (the orange one) is a very good chemistry book and recommended for CHEM 1211/1212. Carole Letson is working with Nikki Stubbs on this.
- Knewton Alta (online homework system) was also discussed and recommended; this is integrated into the LMS (at Gordon); linked to open stax so it can prompt student if he/she needs assistance. <https://www.knewtonalta.com> (approx. \$40/year or \$8/month)
- For any online resources (including open resource) contact Nikki Stubbs – [nstubbs@tcsge.edu](mailto:nstubbs@tcsge.edu)
- ACS guidelines are specific for two-year colleges, including guidelines for faculty workload, number of students in lecture, and number of students per lab. <https://www.acs.org/content/acs/en.html>. ACS also has specific guidelines for equipment, teaching loads, labs, etc. for the success of students and for the safety of students and staff. These guidelines should be reviewed on a regular basis and colleges/instructors should strive to meet these nationally recognized professional standards.
- Review of Courses (including textbooks) - the courses were reviewed and the comments made are indicated below
  - CHEM 1151/L
    - MATH 1101 or MATH 1103 or MATH 1111 can be taken as a pre-requisite or co-requisite. The CHEM course/lab has to be a co-requisite.
  - CHEM 1152/L
  - CHEM 1211/L
  - CHEM 1212/L
  - CHEM 2211/L – Please send syllabi/lab manual to Carole Letson at Chattahoochee
  - CHEM 2212/L - Please send syllabi/lab manual to Carole Letson at Chattahoochee
  - CHEM 2300/L

- NOTE – it was discussed that all prerequisites require a C or higher (D is not a successful grade for a prerequisite requirement. Benita is going to look at adding this to KMS if this can be done. Also, instructors should make sure this (grade of C or higher) is listed in the catalog or student handbook at your college.
- Career Advisement Sheet
  - sheet to describe the difference between CHEM 1151/L and CHEM 1211/L. Essentially, how do we communicate to the students, their parents, teachers, advisors, etc. that CHEM 1151 is for a "non-science majors" and CHEM 1211 is for "science majors"
  - Benita will draft a sheet to use based on the discussion. (See draft at end of minutes)
- Dual enrollment was discussed. Dual enrollment is pretty steady or increasing at most colleges. Other than poor writing skills, the chemistry students do pretty well in the chemistry courses. It was also noted that good advisement for dual enrollment students is very important for student success. Also, counselors should be encouraged to not assign a dual enrollment student to certain courses in their last semester of high school if this can be avoided.
- Content based learning was discussed; Myles Sedgwick is going to send out information how he uses this in his classes.
- Adjourn – the meeting adjourned at 11:42 am; lunch was available with discussions amongst the participants.

## Roster

Ann	Alu	West Georgia Technical College	ann.alu@westgatech.edu
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David	Wortham	West Georgia Tech	david.wortham@westgatech.edu

## TCSG CHEMISTRY COURSES

This sheet should help students/parents/counselors decide which college chemistry course is appropriate.

### CHEM 1151 (and CHEM 1151 Lab) – Survey of Inorganic Chemistry

This course is for non-science majors.

Provides an introduction to basic chemical principles and concepts which explain the behavior of matter.

Topics include measurements and units, structure of matter, chemical bonding, chemical reactions, gas laws, liquid mixtures, acids and bases, salts and buffers, and nuclear chemistry.

### CHEM 1152 (and CHEM 1152 Lab) – Survey of Organic Chemistry and Biochemistry

This course is for non-science majors.

Provides an introduction to organic chemistry and biochemistry. This survey will include an overview of the properties, structure, nomenclature, reactions of hydrocarbons, alcohols, phenols, ethers, halides, aldehydes, ketones, carboxylic acids, esters, amines, amides; the properties, structure, and function of carbohydrates, lipids, proteins, and enzymes, as well as, intermediary metabolism. Topics include basic principles, hydrocarbons, hydrocarbon derivatives, heterocyclic rings and alkaloids, carbohydrates, lipids and fats, proteins, nucleic acids, and intermediary metabolism.

### CHEM 1211 (and CHEM 1211 Lab) – Chemistry I

This course is for science majors.

Provides an introduction to basic chemical principles and concepts which explain the behavior of matter.

Topics include measurement, physical and chemical properties of matter, atomic structure, chemical bonding, nomenclature, chemical reactions, and stoichiometry and gas laws

### CHEM 1212 (and CHEM 1212 Lab) – Chemistry II

This course is for science majors.

Continues the exploration of basic chemical principles and concepts. Topics include equilibrium theory, kinetics, thermodynamics, solution chemistry, acid-base theory, and nuclear chemistry.