

**ROBERT S. WELCH CENTER FOR GRADUATE AND PROFESSIONAL STUDIES
GOUCHER COLLEGE
ADVANCED PLACEMENT SUMMER INSTITUTE – IN PERSON
©2022 GOUCHER COLLEGE**

SYLLABUS

COURSE NUMBER AND TITLE: AP 512.400 Preparing Students for the AP Exam: Chemistry.

ATTENDANCE POLICY: The class will meet from 7:30 a.m. to 4:00 p.m. Monday through Thursday EDT.

CONTACT INFORMATION: stephen.pulliam@gmail.com.

COURSE OBJECTIVES: The course will prepare the beginning and experienced Chemistry teacher to

- Understand the skills tested on the AP Chemistry exam (Content Knowledge)
- Construct lesson plans/labs that increase students' knowledge and skills (Content Knowledge and Pedagogy and Student Learning)
- Develop focused units that prepare students for success (Content Knowledge and Pedagogy and Student Learning)

Additionally, the course will meet the following GPE standards

- Demonstrate the ability to incorporate theory and research into practice related to the area of specialization
- Use reflective practice within the area of specialization
- Apply knowledge of psychological and educational theory, research, and/or philosophy related to the area of specialization
- Demonstrate effective communication and presentation skills related to the area of specialization

COURSE DESCRIPTION:

This in-person AP Chemistry course is designed to maximize the learner experience, providing relevant AP content and pedagogy through meaningful engagement – all focused on best practices for preparing your AP students for success. It is geared toward, but not limited to, new AP Chemistry teachers. During the week, participants will look at the unique features of AP Chemistry, review content, and explore the depth of content required by the course. Considerable time will be spent reviewing the syllabus required by The College Board for all AP courses as well as conducting labs throughout the workshop that are specifically designed for the course requirements. Topics to be covered include kinetics, equilibrium, thermodynamics, and electrochemistry. In order to create a culture of collaboration and community, experienced teachers will have the opportunity to share what has worked well in their courses as well as brainstorm solutions for any challenges faced. In addition, participants will examine past AP tests with the goal of developing strategies that enable students to perform well on the exam. Virtual labs/demonstrations are included, as appropriate.

**ROBERT S. WELCH CENTER FOR GRADUATE AND PROFESSIONAL STUDIES
GOUCHER COLLEGE
ADVANCED PLACEMENT SUMMER INSTITUTE – IN PERSON
©2022 GOUCHER COLLEGE**

SCHEDULE OF CLASSES:

Day 1

Welcome, Introductions & Expectations
Curriculum Guidelines/Course Description/Equity and Access/Handbook Contents
Explore the AP Exam
The AP Course Audit
Unit 7: Chemical Equilibrium
 Overview
 Equilibrium Lab
Scope and Sequence of AP Chemistry Curriculum
Exploring the CED

Day 2

Unit 6: Thermodynamics
 Overview
 Lab - Thermodynamics
 Multiple Choice Analysis
Unit 5: Kinetics
 Overview
 Lab
 Mock Reading (scoring) FRQs
 Best Practices Sharing

Day 3

Unit 9: Applications of Thermodynamics
 Overview
 Lab
 Scaffolding
Unit 3: Intermolecular Forces and Properties
 Overview
 Lab
 Mock Reading (scoring) FRQs
 Best Practices Sharing

Day 4

Unit 1: Atomic Structure and Properties
 Lab - Gravimetric Analysis of
 Inquiry Learning Activity
 Scaffolding and Differentiated Learning
 Scoring FRQs
 Best Practices Sharing

**ROBERT S. WELCH CENTER FOR GRADUATE AND PROFESSIONAL STUDIES
GOUCHER COLLEGE
ADVANCED PLACEMENT SUMMER INSTITUTE – IN PERSON
©2022 GOUCHER COLLEGE**

ACCESSING GRADES AND TRANSCRIPTS

Goucher College does not issue grade reports. You can obtain your grade approximately 3 weeks after concluding the course by going to the myGoucher website (myGoucher) and following the prompts to receive your grade. If you have misplaced your password, please contact the help desk (helpdesk@goucher.edu) and they will help you through this procedure.

If you need a paper copy of grades for tuition reimbursement, you will need to request a transcript in writing. You can fax your request to 410-337-6504 or mail to:

Goucher College
Registrar's Office
1021 Dulaney Valley Road
Baltimore, MD 21204

There is no charge for this request. Please allow 3-5 working days to process. To access the transcript request form, please go to [Transcript-Request.pdf \(goucher.edu\)](#).

Questions? Please call the Welch Center Office at 410-337-6200.

**ROBERT S. WELCH CENTER FOR GRADUATE AND PROFESSIONAL STUDIES
GOUCHER COLLEGE
ADVANCED PLACEMENT SUMMER INSTITUTE – IN PERSON
©2022 GOUCHER COLLEGE**

Day 1

Welcome, Introductions & Expectations
Curriculum Guidelines/Course Description/Equity and Access/Handbook Contents
Explore the AP Exam
The AP Course Audit
Unit 7: Chemical Equilibrium
 Overview
 Equilibrium Lab
Scope and Sequence of AP Chemistry Curriculum
Exploring the CED

Day 2

Unit 6: Thermodynamics
 Overview
 Lab - Thermodynamics
 Multiple Choice Analysis
Unit 5: Kinetics
 Overview
 Lab
 Mock Reading (scoring) FRQs
 Best Practices Sharing

Day 3

Unit 9: Applications of Thermodynamics
 Overview
 Lab
 Scaffolding
Unit 3: Intermolecular Forces and Properties
 Overview
 Lab
 Mock Reading (scoring) FRQs
 Best Practices Sharing

Day 4

Unit 1: Atomic Structure and Properties
 Lab - Gravimetric Analysis of
 Inquiry Learning Activity
 Scaffolding and Differentiated Learning
 Scoring FRQs
 Best Practices Sharing