WELCH CENTER FOR GRADUATE AND PROFESSIONAL STUDIES
GOUCHER COLLEGE
ADVANCED PLACEMENT SUMMER INSTITUTE - ONLINE
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Syllabus
AP 566.300 Preparing Students for Advanced Placement® Statistics

This online course will focus in detail on the philosophy, content, and pedagogies related to creating and implementing a successful course in AP Statistics. The sessions will engage participants in the four main areas of AP Statistics: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. During this training, teachers will explore the Course and Exam Description (CED) including the big ideas, enduring understandings, learning objectives, and essential knowledge. Participants will understand how to use activities that organize the course content to develop students' proficiencies in the skills identified by the curriculum framework; participants will work on a course plan that will help them decide how they will teach the skills and content of the AP Statistics courses. In addition, participants will explore and incorporate the new tools from the College Board to enhance their instruction and maximize the probability of their students' successes.

Participants will be expected to collaborate and participate fully in the proceedings of the course and will be encouraged to create a network of support.

Instructor: Dr. Jim Bohan, Ed.D

bohan.educ@gmail.com– please state "Goucher AP Stats" in subject line

Summer 2021

Tentative Times	Monday	Tuesday	Wednesday	Thursday	Friday
	Introductions Expectations	Feedback MC Homework Check Questions Technology	Feedback MC Homework Questions Technology	Feedback MC Homework Questions Technology	Feedback MC Homework Questions Technology
Homework 2015 Practice Test	1, 3, 6, 7, 12, 15, 17, 21, 27, 29	2, 4, 5, 9, 10, 19, 25, 32, 37, 39, 40	8, 13, 16, 23, 26, 35	11, 14, 18, 20, 22, 24, 28, 30, 33, 34, 36, 38	
Homework Preview	Unit Guides 3 and 4	Unit Guides 5, 6 and 8	Unit Guides 7 and 9		
Skills		**Course Skill 1**	**Course Skill 2**	**Course Skill 3**	**Course Skill 4**
AM	**Workshop Focus New Resources Key Takeaways Course and Exam Description (CED) Course Framework Course Skills Unit Guides UbD Approach Instructional Approaches AP Exam Overview Digital Resources IPRs and Course Audit**	**Unit 3 - Collecting Data** **Unit 4 – Probability, Random Variables and Probability Distributions**	**Unit 6 – Inference for Categorical Data: Proportions**	**Unit 7 – Inference for Quantitative Data: Means**	**2020 Test**
PM	**Unit 1 – Exploring One-Variable Data** **Unit 2 – Exploring Two-Variable Data**	**Unit 5 – Sampling Distributions**	**Unit 8 – Inference for Categorical Data: Chi-square**	**Unit 9 – Inference for Quantitative Data: Slopes**	

No text is required but participants are strongly recommended to bring whatever text they will be using when they teach AP Statistics.

Course Objectives
1. Understanding the Course
2. Planning the Course
3. Teaching the Course
4. Assessing Student Progress and Understanding
5. Becoming a Member of the AP Community

Graduate Programs in Education (GPE) Outcomes:

- GPE001: Knowledge - Theory: Apply knowledge of psychological and educational theory, research, and/or philosophy related to the area of specialization or certification.

- GPE002: Knowledge - Assessments: Demonstrate understanding and use of the types of assessments appropriate to the area of specialization or certification.

- GPE005: Skills - Theory: Demonstrate the ability to incorporate theory and research into practice related to the area of specialization.

- GPE006: Skills - Data: Demonstrate the ability to gather appropriate data and use data in problem analysis and decision-making related to the area of specialization.

- GPE007: Skills - Problem Solving: Use problem solving/critical thinking strategies appropriate to the area of specialization.

- GPE008: Skills - Reflection: Use reflective practice within the area of specialization.

- GPE009: Skills - Communication: Demonstrate effective communication and presentation skills related to the area of specialization.

- GPE010: Skills - Technology: Use a variety of technologies appropriate for working in the area of specialization.

- GPE012: Dispositions - Diversity: Demonstrate positive dispositions toward diversity and equity.

- GPE013: Dispositions - Professionalism: Demonstrate professionalism in one's demeanor, behavior, conduct, decision-making, and interactions with colleagues.

Bibliographical references and complimentary textbooks will be shared in class. Please plan to share activities, websites, and strategies during the institute. All submissions will be compiled and distributed to all.

Requirements for Graduate Credit – all documents must be submitted electronically at the end of the institute or within two weeks of the completion of the institute. Use the email address listed above.

- Create an outline of how this CED will change the content of your course with reference to the Big Ideas of AP Statistics
- Creation of an action plan for implementation of concepts and procedures learned from the course.
- Evaluation of the course.
  - What did you like?
  - What did you not like?
  - What should I do differently?

If you are taking the course for credit, no absences are permitted.
You must attend full time on all five days to receive graduate credit.

Instructions to receive a copy of Credits Earned after the completion of the course:

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 (https://www.goucher.edu/information-technology/accounts-and-access/mygoucher/) and follow the prompts to receive your grade. If you have misplaced your password, please contact the help desk and they will walk you through this procedure (410-337-6322).

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
Transcript Request
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 Request a Transcript | Goucher College.