



# Syllabus: CAP 4793 – Advanced Data Science

Spring semester 2026

## Course Information

- **Course Number and Title:** CAP 4793 – Advanced Data Science
- **Credit Hours:** 3 credits
- **Academic Term:** Spring 2026
- **Class Meeting:** Tuesday, Thursday 4:00 PM – 5:15 PM BARC-1159

## Instructor Information

- **Instructor:** Abdulaziz Alhamadani, Ph.D.
- **Office Location:** ARC-1108
- **Office Hours:**
  - Tuesday 2:00 PM - 3:00 PM,
  - Wednesday 2:00 PM - 3:00 PM,
  - Thursday 1:30 PM - 3:00 PM
  - Or by appointment
- **Office Phone:** 863-874-8656
- **E-mail:** [aalhamadani@floridapoly.edu](mailto:aalhamadani@floridapoly.edu)

## Course Delivery and Course Description

- **Delivery Mode:** face-to-face learning experience with class meetings twice a week. Please check the Canvas course website for all information, including announcements, discussions, and any supplementary material for topics covered in this course.  
**Tue/ Thu 4:00 PM – 5:15 PM, BARC-1159**
- **Course Website:** TBD
- **Official Catalog Course Description:**  
This course introduces advanced concepts, methodologies and techniques in relation to data science including novel learning approaches, deep learning, reinforcement learning, novel data mining methodologies and emerging modes of data acquisition and aggregation. The course will develop students' understanding of data mining concepts and their ability to carry out advanced data science projects.
- **Course Prerequisites:** CAP 4770 - Data Mining & Text Mining and COP 3710 - Database 1
- **Communication/Computation Skills Requirement (6A-10.030):** No
- **Required Texts and Materials:**

### Required Texts:

(FES) "Feature Engineering and Selection: A Practical Approach for Predictive Models" by Max Kuhn, Kjell Johnson. Available online: <http://www.feat.engineering/>  
ISBN-13: 978-1138079229, Edition: 1st edition. Publisher: Chapman and Hall/CRC

**Supplementary Materials:**

(DMML) "Data Mining and Machine Learning: Fundamental Concepts and Algorithms" by Mohammed J. Zaki and Wagner Meira, Jr. Available online: [https://dataminingbook.info/book\\_html/](https://dataminingbook.info/book_html/)  
ISBN-13: 978-1108473989, 2<sup>nd</sup> Edition. Cambridge University Press.

(R4DS) "R for Data Science" by Hadley Wickham, Mine Cetinkaya-Rundel, and Garrett Grolemund. Available online at: <https://r4ds.hadley.nz/>  
ISBN-13: 978-1492097402, 2<sup>nd</sup> Edition. O'Reilly Media.

(PyDA) "Python for Data Analysis: Data Wrangling with pandas, NumPy & Jupyter" by Wes McKinney. Available online: <https://wesmckinney.com/book/>  
ISBN-13: 978-1098104030, 3<sup>rd</sup> Edition. O'Reilly Media.

**Equipment and Materials:** R, Python, and other specialized analysis toolkits to synthesize concepts from data analytics and data science as applied to relevant projects. The format of the course will include lectures by the instructor, class discussions, directed readings, and students' presentations.

## Course Objectives and Outcomes

- **Course Objectives:**

This course is an application-driven exploration of advanced topics in data science. The goal of this course is to cover applied and theoretical aspects of data science methods for data analysis, predictive modeling, and data mining. Attention will also be given to mastering concepts and tools necessary for implementing reproducible research and best practices in data science research.

- **Course Learning Outcomes:**

1. **Apply** core programming skills and frameworks for data science research.
2. **Implement** data analytics best practices.
3. **Generate** effective exploratory data analyses.
4. **Apply** best practices for feature engineering in predictive modeling and data mining.
5. **Practice** professional skills through project-based learning.

- **Alignment with Program Outcomes:**

| Course Learning Outcome and Learning Level*   |       |          |         |       |        |
|---|-------|----------|---------|-------|--------|
| Data Science Program Learning Outcomes*   | CLO1  | CLO2     | CLO3    | CLO4  | CLO5   |
| (1) An ability to identify, formulate, and solve broadly defined technical or scientific problems by applying knowledge of mathematics and science and/or technical topics to areas relevant to the discipline. |       | Evaluate | Analyze | Apply |        |
| (2) An ability to formulate or design a system, process, procedure, or program to meet desired needs.   | Apply | Evaluate |         |       |        |
| (3) An ability to develop and conduct experiments or test hypotheses, analyze, and interpret data and use scientific judgment to draw conclusions.  |       |          | Analyze |       |        |
| (4) An ability to communicate effectively with a range of audiences.  |       |          |         |       | Create |

| Course Learning Outcome and Learning Level*   |       |                |       |        |
|---|-------|----------------|-------|--------|
| Learning Outcome  | Level | Learning Level | Level | Level  |
| (5) An ability to understand ethical and professional responsibilities and the impact of technical and/or scientific solutions in global, economic, environmental, and societal contexts. |       | Analyze        |       |        |
| (6) An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.   | Apply |                |       | Create |

\*: learning level as described in [Bloom's taxonomy](#) and [Anderson and Krathwohl's taxonomy](#).

## Academic Support Resources

- **Library:** Students can access the Florida Polytechnic University Library through the University website and [Canvas](#), on and off campus. Students may direct questions to [library@floridapoly.edu](mailto:library@floridapoly.edu).
- **Peer Learning Strategists (PLS):** Are specially trained student leaders who help their peers strategize approaches to course content and work through solution methods. PLS work in collaboration with the courses they support so the content and methods are aligned with your instructors' expectations. Students can meet with a PLS in The Learning Center, which is located on the first floor of the Innovation, Science and Technology (IST) building in room 1019.
- **Academic Success Coaches:** All students at Florida Poly are assigned an Academic Success Coach. Your Academic Success Coach can assist you with academic success strategies. Please visit the Student Success Center on the second floor of the IST building to meet with an Academic Success Coach.
- **Writing Center:** Located on the second floor of the IST (2059/2061), the Writing Center helps students to develop their writing and presentation skills. Consultations are available in person and virtually. For more detail, visit <https://floridapoly.edu/writingcenter>.

## Civility and Collegiality

*Faculty and students come to the university for the same reason, which is to participate in a highly professional educational environment. To that end, both students and faculty are expected to treat each other with mutual regard and civility. Communication, written, oral and behavioral, between faculty and students must remain respectful. Within and outside of the classroom, students must refrain from derogatory comments toward the faculty member and their fellow students, and faculty as well must refrain from derogatory comments toward their students. Civility and collegiality also include respecting each other's time: for example, neither students nor faculty should arrive late to class (unless unforeseen, pressing circumstances prevail); faculty should be present at the posted office hours; and students and faculty should be punctual when meeting times are scheduled. In more general terms, collegiality means respecting the right of both faculty and students to participate fully and fairly in the educational enterprise.*

## Course Policies

### Attendance

- Students in face-to-face (this includes labs and C-courses) courses are expected "to attend all of their scheduled University classes and to satisfy all academic objectives as defined by the instructor" (University Policy, [FPU-5.0010AP](#)).
- If you know that you will miss a class for any reason discuss the situation with your instructor in a timely manner. Exceptions to any attendance requirements may be made on a case-by-case basis.

## Participation

Participation in all course activities is a very important element of this course and is a basic expectation. Course participation consists of active and respectful involvement in class discussions, presentations, peer feedback, postings, replies, projects, and other interactions. The use of earbuds/headphones during class is specifically not allowed and students who engage in this behavior may be asked to leave the class for the day (noting exceptions for authorized accommodations). In addition, students who routinely do not bring materials to class that are required for participation, will not be given credit for class attendance, and if this becomes a pattern of behavior, may be asked to leave the class for the day. Persistent problems with participation may result in a [code of conduct](#) referral.

## Late Work/Make-up work

Each student must keep current on assignments. Late assignments are not graded unless *permission has been obtained from the instructor for an extension prior to the due date*. In case of a medical emergency, please notify your instructor as soon as possible who will evaluate any exceptions on a case-by-case basis.

## Grading Scale

(See also [University Grading Policy](#)).

Grades will be determined according to the following scale:

|           |            |           |           |           |           |           |           |
|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>A</b>  | 93% – 100% | <b>B</b>  | 83% – 85% | <b>C</b>  | 73% – 75% | <b>D</b>  | 63% – 65% |
| <b>A-</b> | 90% – 92%  | <b>B-</b> | 80% – 82% | <b>C-</b> | 70% – 72% | <b>D-</b> | 60% – 62% |
| <b>B+</b> | 86% – 89%  | <b>C+</b> | 76% – 79% | <b>D+</b> | 66% – 69% | <b>F</b>  | 0% – 59%  |

### **Grading Information Specifically for Graduate Students**

The grades of "A" through "C," and "SR" are passing grades. The grades of "B-," "C+," and "C" are considered passing for graduate students but indicate weak performance for a graduate student and may not be accepted for some programs.

**Note:** The grades of "C-," "D+," "D," "D-," "F," and "UR" are failing grades.

## Assignment/Evaluation Methods

| Assignment           | Percentage | Points |
|----------------------|------------|--------|
| Discussion           | 5%         | 5      |
| Midterm Exam         | 20%        | 20     |
| Quizzes              | 15%        | 15     |
| Homework Assignments | 15%        | 15     |
| Exam 2 (Final)       | 25%        | 25     |
| Final Project        | 20%        | 20     |
| Total                | 100%       | 100    |

**Quizzes** will be generally scheduled every other week. **Discussions** will be in the form of responses to a discussion exercise posted on Canvas and vary from assigned readings to other audiovisual materials. The discussion grade considers quality, quantity, and timeliness of student participation in Canvas discussions. In the **final project** you will show your knowledge and skills in data analytics, using any combination of the different tools and topics discussed throughout the semester applied to an area/field of your interest.

- *Final Project Report:*  
Your goal is to submit a cohesive project report that conveys that you have mastered the techniques discussed during the semester.
- *Final Project Presentation:*  
An important aspect of doing research is taking time to share your findings with others. We will give everyone 15 minutes to share their final project and summarize their findings. *The final project presentation accounts for 10% of your final project grade.*

*Your instructor will provide you with specific guidelines for the final project report and final project presentation shortly after the first few weeks of classes (format and length, call for proposals, reference materials, presentation guidelines and logistics, rubric, etc.)*

## University Policies

### Reasonable Accommodations

The University is committed to ensuring equal access to all educational opportunities. The University, through the Office of Disability Services (ODS), facilitates reasonable accommodations for students with disabilities and documented eligibility. It is the student's responsibility to self-identify as a student with disabilities and register with ODS to request accommodations.

If you have already registered with ODS, please ensure that you have requested an accommodation letter for this course through the [ODS student portal](#) and communicate with your instructor about your approved accommodations as soon as possible. Arrangements for testing accommodations must be made in advance. Accommodations are not retroactive. If you are not registered with ODS but believe you have a temporary health condition or permanent disability requiring an accommodation, please contact ODS as soon as possible.

The Office of Disability Services (ODS):  
[DisabilityServices@floridapoly.edu](mailto:DisabilityServices@floridapoly.edu)  
(863) 874-8770  
The Access Point  
[ODS website: www.floridapoly.edu/disability](http://ODS website: www.floridapoly.edu/disability)

### Accommodations for Religious Observances, Practices and Beliefs

The University will reasonably accommodate the religious observances, practices, and beliefs of individuals in regard to admissions, class attendance, and the scheduling of examinations and work assignments. (See [University Policy](#).)

### Title IX

Florida Polytechnic University is committed to ensuring a safe, productive learning environment on our campus that prohibits sex discrimination and sexual misconduct, including sexual harassment, sexual assault, dating violence, domestic violence and stalking. Resources are available if you or someone you know needs assistance. Any faculty or staff member you speak to is required to report the incident to the Title IX Coordinator. Please know, however, that your information will be kept private to the greatest extent possible. You will not be required to share your experience. If you want to speak to someone who is permitted to keep your disclosure confidential, please seek assistance from the Florida Polytechnic University [Ombuds Office](#), BayCare's Student Assistance Program, 1-800-878-5470 and locally within the community at [Peace River Center](#), 863-413-2707 (24-hour hotline) or 863-413-2708 to schedule an appointment. The Title IX Coordinator is available for any questions to discussion resources and options available.

### Academic Integrity

The faculty and administration take academic integrity very seriously. Violations of [academic integrity regulation](#) include actions such as cheating, plagiarism, use of unauthorized resources (including but not limited to use of Artificial Intelligence tools), illegal use of intellectual property, and inappropriately

aiding other students. Such actions undermine the central mission of the university and negatively impact the value of your Florida Poly degree. Suspected violations will be fully investigated, possibly resulting in an academic integrity hearing and sanctions against the accused student if found in violation. Sanctions range from receiving a zero on the exam or assignment, to expulsion from the university. Repeat offenders are subject to more severe sanctions and penalties. Do not compromise your integrity for a perceived short-term gain.

## Recording Lectures

Students may, without prior notice, record video or audio of a class lecture for a class in which the student is enrolled for their own personal educational use. Recordings may not be used as a substitute for class participation or class attendance. Recordings may not be published or shared in any way, either intentionally or accidentally, without the written consent of the faculty member. Failure to adhere to these requirements is a violation of state law (subject to civil penalty) and the student code of conduct (subject to disciplinary action).

*Recording class activities other than class lectures, including but not limited to lab sessions, student presentations (whether individually or part of a group), class discussion (except when incidental to and incorporated within a class lecture), and invited guest speakers is prohibited.*

## Course Schedule

A **tentative course calendar** is included below.

| Week  | Date  | Topic   | Suggested Problems and Readings            |
|---|-------|---|--|
| 1   | 01/13 | Overview of the course  |  |
|   | 01/15 | Tools setup (RStudio, Python, Tableau)<br>Illustrative Examples |  |
| 2   | 01/20 | Splitting, preprocessing, exploration                           | FES: Chapter 1, 2<br>DMML: Chapter 1, 2, 3 |
|   | 01/22 | Performance metrics   |  |
| 3   | 01/27 | Tuning and overfitting  | FES: Chapter 3<br>DMML: Chapter 2, 3       |
|   | 01/29 | Feature engineering   |  |
| 4   | 02/03 | Exploratory visualizations<br>EDA best practices                | FES: Chapter 4, 5<br>PyDA: Chapter 8, 9    |
|   | 02/05 | Variable encoding   |  |
| 5   | 02/10 | <i>Career Day – No classes</i>                                  | FES: Chapter 4, 5<br>PyDA: Chapter 5, 6, 7 |
|   | 02/12 | Approaches for novel categories                                 |  |
| 6   | 02/17 | Supervised encoding methods                                     | FES: Chapter 5                             |
|   | 02/19 | Features from text data   |  |
| 7   | 02/24 | Engineering numeric predictors                                  | FES: Chapter 6                             |
|   | 02/26 | Transformations overview  |  |
| 8   | 03/03 | Interaction effects: guiding principles                         | FES: Chapter 7                             |
|   | 03/05 | <b>MIDTERM (Thursday March 5<sup>th</sup>)</b>                  |  |
| 9   | 03/10 | Identifying predictive interactions                             | FES: Chapter 7                             |
|   | 03/12 | Exercises and other detection methods                           |  |
| <b>Spring Break: Monday 03/16 – Friday 03/20 (No classes)</b> |       |   |  |
| 10  | 03/24 | Handling missing data   | FES: Chapter 8                             |
|   | 03/26 | Encoding missingness  |  |
| 11  | 03/31 | Working with profile data                                       | FES: Chapter 9                             |
|   | 04/02 | Impacts of data processing on modeling                          |  |

| Week                           | Date  | Topic   | Suggested Problems and Readings  |
|--------------------------------|-------|---|--|
| 12                             | 04/07 | Feature selection overview  | FES: Chapter 10  |
|                                | 04/09 | Overfitting and validation  | DMML: Chapter 22, 27   |
| 13                             | 04/14 | Greedy search methods   | FES: Chapter 11, 12  |
|                                | 04/16 | Global search methods   |  |
| 14                             | 04/21 | Exploratory data analysis exercises<br>Predictive modeling exercises  | R4DS: <a href="https://r4ds.hadley.nz/webscraping">https://r4ds.hadley.nz/webscraping</a><br>PyDA: Chapter 13  |
|                                | 04/23 | <b>Final Project Presentations (1-6)</b>                              |  |
| 15                             | 04/28 | <b>Final Project Presentations (7-12)</b><br>Ethical responsibilities | Read:<br><a href="https://www.amstat.org/ASA/Your-Career/Ethical-Guidelines-for-Statistical-Practice.aspx">https://www.amstat.org/ASA/Your-Career/Ethical-Guidelines-for-Statistical-Practice.aspx</a> |
|                                | 04/30 | <i>Reading Day – No classes</i>                                       |  |
| <b>Final Exam (Exam 2) TBD</b> |       |   |  |

*I reserve the right to modify this schedule as required by the progression of the class.*

**Important Dates:** <https://floridapoly.edu/academics/academic-calendar/index.php>

|                  |       |   |
|------------------|-------|---|
| January 12 – 16  | M-F   | Drop/Add Week   |
| January 19       | M     | Martin Luther King Jr. Holiday – <i>No Classes</i>        |
| February 10      | T     | Career Day – <i>No Classes</i>                            |
| Mar 3            | M     | Midterm grades due  |
| March 16 – 20    | M – F | Spring Break - <i>No Classes</i>                          |
| April 17         | F     | Withdrawal Without Academic Penalty Deadline (W assigned) |
| April 28         | W     | Last Day of Classes                                       |
| April 29 – May 1 | W-F   | Reading Days - <i>No Classes</i>                          |
| May 4 – 8        | M – F | Final Exams   |
| May 11           | W     | Final Grades Available Online                             |

#### ***Sample Rubric for Report and Presentations***

The final presentations and reports will be evaluated using rubrics similar to the ones included below.

#### **Sample Data Analysis Rubric:**

| Technical requirements  | Possible points | Excellent | Good | Needs work |
|---|-----------------|-----------|------|------------|
| Code and output are included and properly formatted   | 10              |           |      |            |
| No error messages are included (or left unexplained)  | 4               |           |      |            |
| Generated data visualizations are appropriate, compelling, and well-formatted                                   | 15              |           |      |            |
| Use of tools covered in class is present (other tools may be explored)  | 10              |           |      |            |
| Summary statistics, comparison, or any other type of quantitative analysis is present and supports the analysis | 15              |           |      |            |

Dataset description is included (or referenced) and comments on the attributes are present

10

Data analysis is fully reproducible (or special requirements for reproducibility are detailed)

6

| Narrative   | Possible points | Excellent | Good | Needs work |
|---|-----------------|-----------|------|------------|
| Discussion on findings is sound   | 5               |           |      |            |
| The analysis is carefully thought-out   | 10              |           |      |            |
| Possible future work is proposed (and/or commentary of limitations is included) | 5               |           |      |            |
| Results are clear and a convincing argument is present                          | 10              |           |      |            |

### Sample Report Rubric

| Objective   | Category                         | Below Expectations  | Weak   | Average   | Good   | Excellent   |
|---|----------------------------------|---|--|---|--|---|
|   |                                  | Score   | 1  | 2   | 3  | 5   |
| Students can write professional quality documents | Introduction                     | Opening is off-topic and inappropriate to the purpose, not concise and no clarity | Opening is somewhat related to the topic and appropriate to the purpose but is not concise and clear | Opening is related to the topic and appropriate to the purpose. Somewhat clear and concise                    | Opening is related to the topic and appropriate to the purpose. Clear and concise  | Strong opening that is clear and concise  |
|   | Organization                     | Disorganized; incorrect format; unclear direction                                 | Somewhat organized; incorrect format; unclear direction  | Organized; correct format; unclear direction  | Organized; correct format; clear direction   | Correct formatting, strong clarity and organization in the development of main points   |
|   | Literature Review                | Does not present information from any source                                      | Presents information from irrelevant sources representing limited points of view/approaches          | Presents information from relevant sources representing limited points of view/approaches                     | Presents in-depth information from relevant sources representing limited points of view/approaches   | Synthesizes in-depth information from relevant sources representing limited points of view/approaches   |
|   | Research Design (weighted twice) | Does not provide information on research design                                   | Inquiry design demonstrates misunderstanding of the methodology or theoretical framework             | Critical elements of the methodology or theoretical framework are missing, incorrectly developed or unfocused | Critical elements of the methodology or theoretical framework are appropriately developed however, more subtle elements are ignored or unaccounted for | All elements of the methodology or theoretical framework are skillfully developed and may be synthesized from across disciplines or relevant subdisciplines |
|   | Analysis (weighted twice)        | Incorrect, irrelevant, no supporting evidence                                     | Correct, irrelevant, no supporting evidence  | Correct, relevant, no supporting evidence   | Relevant and correct with supporting evidence  | Relevant, correct, complete, incorporates innovative insights   |

| Next Steps         | Missing or content does not support conclusion         | Conclusion irrelevant to the findings   | Conclusion somewhat relevant to the findings  | Conclusion relevant to the findings  | Strong conclusion that is clear, complete and compelling   |
|--------------------|--|---|---|--|--|
| Grammar & Spelling | Uses language that often impedes meaning due to errors | Uses language that often sometimes meaning due to errors                        | Uses language that generally conveys meaning to readers with clarity, although writing includes some errors | Uses straightforward language that conveys meaning to readers. Language has few errors | Uses graceful language that communicates meaning to readers with clarity and fluency and is virtually error free |
|                    | Did not follow APA style                               | Numerous errors in APA style, did not cite sources correctly, formatting issues | Some errors in APA style, cited correctly but formatting issues persist                                     | Minimum errors in style and formatting but does not detract from readability           | No errors in APA style   |

Total points for Report = 50

### Sample Presentation Rubric

| Objective   | Category          | Below Expectations   |   | Weak   | Average  | Good  | Excellent |
|---|-------------------|--|---|--|--|---|-----------|
|   |                   | Score  | 1   |  |  |   |           |
| Students can demonstrate mastery of communication technology                                | Use of Media      | Lack of media detracts from the presentation objective   | Misuse of media that detracts from the presentation objective   | Use of media barely supports and contributes to the presentation objective                 | Use of media supports and contributes to the presentation objective                                | Use of media supports, clarifies and reinforces the presentation objective                            |           |
|   | Quality of Slides | Very poor quality. Not enough or too much colors, fonts and animations that detract from project objective | Poor quality. Not enough or too much colors, fonts and animations that detract from project objective | Fonts, colors and animations barely support the presentation objective                     | Fonts, colors and animations support the presentation objective                                    | Fonts, colors and animations support, clarify and reinforce the presentation objective                |           |
| Students can develop and deliver a compelling oral talk with relevant facts and information | Opening statement | Opening is off-topic and inappropriate to the purpose, not concise and no clarity                          | Opening is somewhat related to the topic and appropriate to the purpose but is not concise and clear  | Opening is related to the topic and appropriate to the purpose. Somewhat clear and concise | Opening is related to the topic and appropriate to the purpose. Clear and concise                  | Strong opening that is clear and concise  |           |
|   | Organization      | Disorganized; incorrect format; unclear direction  | Somewhat organized; incorrect format; unclear direction   | Organized; correct format; unclear direction   | Organized; correct format; clear direction   | Correct formatting, strong clarity and organization in the development of main points                 |           |
|   | Literature Review | Does not present information from any source   | Presents information from irrelevant sources representing limited points of view/approaches           | Presents information from relevant sources representing limited points of view/approaches  | Presents in-depth information from relevant sources representing limited points of view/approaches | Synthesizes in-depth information from relevant sources representing limited points of view/approaches |           |
|   | Analysis          | Incorrect, irrelevant, no supporting evidence  | Correct, irrelevant, no supporting evidence   | Correct, relevant, no supporting evidence  | Relevant and correct with supporting evidence  | Relevant, correct, complete, incorporates innovative insights   |           |
|   | Next Steps        | Missing or content does not support conclusion   | Conclusion irrelevant to the findings   | Conclusion somewhat relevant to the findings   | Conclusion relevant to the findings  | Strong conclusion that is clear, complete and compelling  |           |
|   | Timing            | Presentation is too short,   | Presentation is too long. Unable  | Able to cover all the material   | Utilizes allotted time to provide  | Well-paced coverage of  |           |

|  |                     | insufficient coverage of material             | to cover all the material  | within five extra minutes  | sufficient coverage of material   | material within the allotted time   |
|--|---------------------|---|--|--|---|---|
| Students can deliver an oral talk with clarity and appropriate poise | Delivery Techniques | Does not participate in the oral presentation | Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) detract from the understandability of the presentation, and speaker appears uncomfortable. | Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation understandable, and speaker appears tentative. | Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation interesting, and speaker appears comfortable. | Delivery techniques (posture, gesture, eye contact, and vocal expressiveness) make the presentation compelling, and speaker appears polished and confident. |
| Peer Evaluation  | 5 points            |   |  |  |   |   |
|  | Total Points = 50   |   |  |  |   |   |