

Student Outcomes and Performance Indicators – **Faculty Assessment**
 Department of Engineering & Engineering Technology
 College of Professional Studies
 Metropolitan State University of Denver

EET 4100 (2)

SENIOR PROJECT I

Semester/year

Specific, Measurable Student Behavioral Learning Objectives:

Upon completion of this course the student should be able to:

1. Integrate and apply the knowledge gained in the EET education to develop, design, and document a technology-based project (appropriate to their concentrations) with completion in EET 4110 Senior Project II.
2. Create a formal presentation of the project technology, projected cost and design implementation.

| ABET | Competency Area | Data Collection |
|------|--|-----------------|
| a | an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities | |
| e | an ability to function effectively as a member or leader on a technical team | |
| g | an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature | |
| i | an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity | |

ADDITIONAL COMMENTS:

PLEASE:

1. MAKE SURE ALL REFERENCES ARE IN Y DRIVE;
2. SAVE THIS FILE UNDER THE COURSE NUMBER, FOR EXAMPLE: CET1000 SPRING 2018.DOC;
3. SEND YOUR REPORT TO LINDA;

<Name>

<Date>

Following tables define the Performance Indicators for each of the Student Outcomes a through k

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| ABET a: an ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities | | | | |
|---|---|--|--|--|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Identify, formulate, and solve engineering technology problems | Unable to identify the engineering problem | Able to identify and formulate but unable to obtain a solution | 70% partial solutions or better | Proper solution and discussions for the solution |
| Use appropriate skills of the profession to conduct qualitative analysis | Unaware of needs for qualitative analysis | Working on the skills to properly use the identified tools | Use proper skills to obtain 70% partial solution or better | Proficient in using selected skills for qualitative analysis |
| Use appropriate tools of the profession to conduct quantitative analysis | Unable to identify tool for the needed analysis | Working on the skills to properly use the identified tools | Use proper tools to obtain 70% partial solution or better | Proficient in using selected tools for quantitative analysis |
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| ABET e: an ability to function effectively as a member or leader on a technical team | | | | |
|--|--|---|--|--|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Fulfill Team Role's Duties | Does not perform any duties of assigned team role. | Performs very little duties. | Performs nearly all duties. | Performs all duties of assigned team role. |
| Share in work of team | Always relies on others to do the work. | Rarely does the assigned work-- often needs reminding. | Usually does the assigned work-- rarely needs reminding. | Always does the assigned work without having to be reminded. |
| Listen to Other Teammates | Is always talking-- never allows anyone else to speak. | Usually doing most of the talking— rarely allows others to speak. | Listens, but sometimes talks too much. | Listens and speaks a fair amount. |
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ABET g: an ability to apply written, oral, and graphical communication in both technical and non-technical

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| environments; and an ability to identify and use appropriate technical literature | | | | |
|---|--|--|---|---|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Use proper format and grammar in written and oral communications | Unaware of the need of communications in engineering technology practice | Unable to use format and grammar for effective communication | Able to communicate in technical environment | Present properly to both non-technical and technical audience |
| Use appropriate graphics in oral and written presentations | No understanding of importance of graphics | Unable to produce all graphics needed | Some applications of graphics in presentation | Presentation with proper graphical aids |
| Paraphrase technical and non-technical literature satisfactorily | Unaware of the need in technical literature | Unable to identify and research for proper literature | Some literature research | Present properly to both non-technical and technical audience |
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| ABET i: an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity | | | | |
|---|---|---|--|--|
| | Unsatisfactory | Developing | Satisfactory | Exemplary |
| Know the code of ethics for the related profession | Unaware of the code of conduct in profession | In progress of learning | Understand | Apply properly |
| Demonstrate positive attitude towards others | Show no respect to others | Understanding the importance of proper professional conduct | Proper professional conduct | Demonstrate positive attitude towards others |
| Show awareness for diverse ideas and cultural differences | Unaware of diversity and cultural differences | Learning in progress such as taking MC courses | Successfully completed some MC and diversity related courses | Fully aware and respectable for diversity and cultural differences |
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