ABET Update

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Update

- We have decided to pursue ABET Accreditation for Mechatronics Engineering Program first.
- We recently had an assessment workshop attended by all faculty who are currently teaching EMEC courses.
- We have support of the administration.
  - Funding for workshop
  - Funding for consultant
  - Administrative help with preparing self assessment documents
- Timeline
- Program Educational Objectives

ABET Timeline

- October 1, 2023: Submit Readiness Review Document
- January 31, 2024: Submit Request for Evaluation
- July 1, 2024: Submit Self-Study Report
- September 2024 – December 2024: On-site Visit
- November 2024 – March 2025: Receive Draft Statement (2-3 Months after visit)
- December 2024 – April 2025: 30-Day Due Process to take action to resolve identified shortcomings
- July 2025: Commission Decision-Making Meeting
- August 1, 2025: Final Statement Sent to Institution

Program Educational Objectives (PEOs)

- One way that you are part of the process is through the regular review and approval of the PEOs.

- I will send an email to all of you after the meeting will the PEOs to ask for your vote of approval.

- Please respond by January 18, 2023.

PEOs – Mechatronics Engineering

In accordance with the mission of the California State University Channel Islands, alumni of the mechatronics engineering program will be prepared for the following achievements within five years of graduation:

1. Exceed the expectations of their employers as professional engineers.
2. Excel in pursuit of graduate level degree programs or professional certifications.
3. Apply a foundation of engineering problem solving and fact-based decision making in their professional endeavors.
4. Approach complex engineering problems facing the world from multiple perspectives including cross-disciplinary, cross-cultural, and international.
5. Recognize their role in serving local and professional communities.
6. Demonstrate leadership, communication skills, and an understanding of ethical and societal implications of their decisions and engineering designs.

PEOs Computer Science

PEO 1: Depth and breadth

Computer Science graduates will have a strong understanding of the field of computer science including scientific principles, analysis techniques, design methodologies, several programming languages and an understanding of systems in order to:

- Be successfully employed
- Pursue a graduate degree or professional certification

PEO 2: Human formation

Computer Science graduates will have a human formation enabling them to:

- Demonstrate leadership, e.g., take a leadership role in a team
- Growth: being promoted or moving up to a better job
- Possess an understanding of the broader impacts of technology by identifying ethical, economic, cultural, legal or environmental issues related to work projects.

PEO3: Professionalism

Computer Science graduates will be prepared for modern work environments, where they will:

- Apply their skills in clear communication, responsible teamwork, and time management by, for example, managing a team or project, working on multidisciplinary project teams, or communicating with external stakeholders.
- Demonstrate professional attitudes and ethics by, for example, assisting colleagues in professional development (e.g. mentoring), engaging in continuing education or training, participating in professional societies, engaging in service to the community, or contributing to an employer's efforts to comply with software licensing or compliance, protect privacy, or assure quality and safety.

PEOs Information Technology

The Information Technology program at CSU Channel Islands will prepare its students:

- **PEO 1**: To be successfully employed in the field of information technology and / or related interdisciplinary fields.
- **PEO 2**: To demonstrate leadership and growth within the IT field that reflects collaborative, communicative decision-making and considers ethical, socioeconomic, legal and environmental ramifications.
- **PEO 3**: To continue lifelong professional development through the pursuit of graduate study or professional certifications that contribute to individual and societal growth.