ICC Recommends Approval for 3Certificate Programs
Mary Beth Parker, ICC Chair
DIAGNOSTIC MEDICAL SONOGRAPHY CERTIFICATE PROGRAM

Hamad Ghazle, Program Director
Program Conversion
Diagnostic Medical Sonography Certificate Program

- Curricular content has been formulated to meet and to exceed when possible the objectives sited by CAAHEP “Standards and Guidelines for an Accredited Educational Program for the Diagnostic Medical Sonographer.
- Provide a strong background in basic science and high degree of technical competence in echocardiography.
- Educate competent, compassionate and responsible echocardiographers and produce leaders in the field.
CERTIFICATE COMPONENTS

- Four (4) Semesters
- Fall 1 = 7 credits, Spring 1 = 9 credits,
  Fall 2 = 13 credits, Spring 2 = 13 credits
- Credits = 42
- One new course: CHST-DMSO-421
  Clinical Echocardiography II
INTEGRATED ELECTRONICS CERTIFICATE PROGRAM

Robert Bowman
Professor of Electrical Engineering
New Certificate Program
INTEGRATED ELECTRONICS CERTIFICATE PROGRAM

- Comprehensive curriculum on the design of state-of-the-art electronic circuits. This program allows experienced technicians and physical designers to become more cross-functional and stronger contributors to multi-disciplinary design teams and provides them a path for professional growth.
CERTIFICATE PARTICIPANTS

- Participants will have at least five years of working knowledge with electronics and some college-level math and science
- Synaptics, a local integrated circuit design company, assisted in developing some of the program objectives and provided partial financial support for the certificate program development
- Structure is supported by the industrial advisory board of the EME Department
CERTIFICATE COMPONENTS

- Four (4) Semesters
- Fall 1 = 3 credits, Spring 1 = 3 credits, Fall 2 = 3 credits, Spring 2 = 3 credits
- Credits = 12
- One new course: EEEE-285 Introduction to Circuits
- No incremental resources are being requested
MECHATRONICS ENGINEERING CERTIFICATE
Dr. Ed Hensel
Professor of Mechanical Engineering
New Certificate Program
MECHATRONICS ENGINEERING CERTIFICATE PROGRAM

- Comprehensive curriculum providing mechanical and electrical engineers with a solid foundation in the core principles of their complementary discipline and will allow the engineer to contribute effectively to multi-disciplinary design and product development teams in the area of mechatronics. The program culminates with a significant laboratory experience in mechatronics.
CERTIFICATE PARTICIPANTS

- Two corporate partners—Bendix Commercial Vehicle Systems and New York Air Brake, both subsidiaries of Knorr Bremse
- Both companies plan to enroll their engineering staff members in the certificate program
- Program structure gained support from the industrial advisory board of the ME department
- Participants must have a BS degree in Mechanical or Electrical Engineering
CERTIFICATE COMPONENTS

- Four (4) Semesters
- Fall 1 = 3 credits, Spring 1 = 4 credits, Fall 2 = 2 credits, Spring 2 = 3 credits
- Credits = 12
- Utilize current faculty and facilities
- Supported by Bendix Commercial Vehicle Systems with a $50,000 donation to establish the lab and additional in-kind donations of equipment to be used in the lab