



OFFICE OF THE PRESIDENT

Item 7.1

PRESENT TO BOARD: OCTOBER 25, 2017

TO: SOUTH FLORIDA STATE COLLEGE
DISTRICT BOARD OF TRUSTEES

FROM: THOMAS C. LEITZEL 

SUBJECT: CURRICULUM PROPOSALS

Consideration of the following curriculum proposals is requested:

I. PROGRAM ADDITIONS

Request approval to add two new occupational programs designed to prepare students with technical skills and fundamental engineering technology background to be successful in today's rapidly changing high performance and advanced manufacturing workforce. Programs are part of the Title V HSI-STEM grant which is targeted for Hispanic and low-income students; effective Spring 2018 (201820).

• **Engineering Technology (Advanced Manufacturing Specialization) - AS #1760 60 Credit Hours**

- ETD 1320C Introduction to AutoCAD - 3 credit hours (New)
- ETD 2364C Introduction to SOLIDWORKS - 3 credit hours (New)
- ETI 1110 Introduction to Quality Assurance - 3 credit hours (New)
- ETI 1420 Manufacturing Processes and Materials - 3 credit hours (New)
- ETI 1622 Concepts of Lean and Six Sigma - 3 credit hours (New)
- ETI 1644 Production and Inventory Control - 3 credit hours (New)
- ETI 1701 Industrial Safety (OSHA) - 3 credit hours
- ETI 1810C Introduction to Electricity and Electronics - 3 credit hours (New)
- ETI 1843 Motors and Controls - 3 credit hours (New)
- ETI 1931 Special Topics in Modern Manufacturing - 3 credit hours (New)

- ETI 1949 Co-op Education Training Assignment in Manufacturing - 3 credit hours (New)
- ETM 1010C Mechanical Measurement and Instrumentation - 3 credit hours (New)
- ETM 2315 Hydraulics and Pneumatics - 3 credit hours (New)
- ETM 2315L Hydraulics and Pneumatics Lab - 3 credit hours (New)
- ETS 1535 Automated Process Control - 3 credit hours (New)
- ETS 1542 Introduction to Programmable Logic Controllers - 3 credit hours (New)
- ETS 2527 Electromechanical Components and Mechanisms - 3 credit hours (New)
- ETS 2604 Robotics Applications - 3 credit hours (New)
- PMT 1250C Computer Numerical Control (CNC) I - 3 credit hours (New)
- PMT 2254C Computer Numerical Control (CNC) II - 3 credit hours (New)
- **Mechatronics - CCC #3094 30 Credit Hours**
 - ETD 1320C Introduction to AutoCAD - 3 credit hours (New)
 - ETI 1420 Manufacturing Processes and Materials - 3 credit hours (New)
 - ETI 1701 Industrial Safety (OSHA) - 3 credit hours
 - ETI 1810C Introduction to Electricity and Electronics - 3 credit hours (New)
 - ETI 1843 Motors and Controls - 3 credit hours (New)
 - ETM 1010C Mechanical Measurement and Instrumentation - 3 credit hours (New)
 - ETM 2315 Hydraulics and Pneumatics - 3 credit hours (New)
 - ETS 1542 Introduction to Programmable Logic Controllers - 3 credit hours (New)
 - ETS 2527 Electromechanical Components and Mechanisms - 3 credit hours (New)
 - ETS 2604 Robotics Applications - 3 credit hours (New)

SUGGESTED MOTION:

Move to approve the curriculum proposals as presented.