

**State Board of Community Colleges
Combined Course Library - Continuing Education**

New Course Approvals, Modifications, and Tier Designations

The State Board is asked to approve the following courses for placement in the Combined Course Library (CCL).

Request #1 of 3 (New)

Course ID	Course Title	Recommended Hours	Program Area	Tier Designation
ATR-3115	Mechatronics	275 hours	P35 – Industrial/ Manufacturing	1B

Description:

This course introduces the synergistic integration and application of mechanical, electrical, electronic, robotic, and computer engineering technologies, including Programmable Logic Controllers (PLC), that are found within production and manufacturing environments striving to improve and/or optimize efficiency, productivity, and quality. Upon completion, students will be able to demonstrate an understanding of the function of the components of a mechatronic system, their controlling interactions, problem solving, and the overall operation of the mechatronic control system.

Rationale:

NC has a number of industries including Electrical Power, Aerospace, and Facilities Support which have a growing need for employees with these skills sets. The Siemens Level I certification provides industry standard system skills recognized in the industry providing a competitive employment advantage.

Credentials:

Certified Mechatronic Systems Assistant (Siemens Level 1 Operator)

Request #2 of 3 (Modification)

Course ID	Course Title	Current Hours	Requested Hours	Tier Designation
AHR-3128	EPA Refrigeration Certification	12	16	3

Description:

Material requirements for the certification have been amended and extended by the US Environmental Protection Agency. Additional hours are required to provide instruction on the new content requirements.

Request #3 of 3 (Modification)

Course ID	Course Title	Current Hours	Requested Hours	Tier Designation
CJC-3941	Detention Officer Cert.	172	174	2

Description:

The Sheriffs' Education and Training Standards Commission approved an increase in hours to the Detention Officer Certification Course from 172 to 174, effective August 1, 2016. The purpose of this request is to align the recommended hours in CJC-3941 to this new industry standard.

Contact:

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