STATE BOARD OF COMMUNITY COLLEGES
Combined Course Library - Continuing Education

New Course Approvals, Modifications, and Tier Designations

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

Request for New Course 1 of 3
Requesting College or Agency: North Carolina Community College System Office

Course ID	Course Title	Recommended Hours	Program Area	Tier Designation
EMS 3163	Basic Anatomy and Physiology	96	L15 – Emergency Medical Services	1B

Description: This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course must meet or exceed the specific guidelines of the NC Office of Emergency Medical Services (NC OEMS), including all content, lab, and instructor requirements.

Rationale:

- The NC Office of EMS has issued new guidelines for EMS Anatomy and Physiology courses, effective January 1, 2021. This new course is designed to align with this new standard.
- This course also aligns with NCCCS Curriculum course BIO-163 Basic Anatomy and Physiology to assist with student credit for prior learning initiatives and associate degree attainment progression.

Credentialing Information: https://info.ncdhhs.gov/dhsr/ems/credcomp.htm

Request for New Course 2 of 3
Requesting College or Agency: Guilford Technical Community College

Course ID	Course Title	Recommended Hours	Program Area	Tier Designation
AVI 3014	Aircraft Structural Repairs	100	V20 – Aircraft Maintenance/Pilot	1A

Description: This course is designed to provide entry-level aircraft structural repair training. This course describes the common sheet metal structural repair and practices used to assess and restore the structure back to a serviceable condition. Upon completion, the student should be able to demonstrate a basic understanding of the various structural repair techniques and applications.

Rationale:

- This new offering provides colleges with a course targeted specifically at aircraft structural repair training beyond the Aircraft Structural Training course's skills and competencies. Upon completion of this course, the student will be able to assess and carry out structural repairs applicable to any maintenance repair organization.

Credentialing Information:
Certificate in Structures Assembly – 180 Skills
New credential in development with the Federal Aviation Administration (FAA)

Request for New Course 3 of 3
Requesting College or Agency: Guilford Technical Community College

Course ID	Course Title	Recommended Hours	Program Area	Tier Designation
NDE 3143	Liquid Penetrant Testing	32	V20 – Aircraft Maintenance/Pilot	3

Description: This course describes the principles, limitations, and advantages of non-destructive examination (NDE) liquid penetrant testing as it is applied to industrial components such as pipes, pumps, valves, hangers and supports. Emphasis is placed on liquid penetrant testing techniques, including color contrast solvent removable and water washable penetrant techniques. Upon completion, students should be able to demonstrate a basic understanding of various NDE liquid penetrant techniques and their applications.

Rationale:

- Students/industry employees do not have quick training provisions for nondestructive testing (NDT) certifications. The NDT training is specialized and constantly requested by local business and industry. This course will support other NDT techniques, as the NDT program expands its offerings to provide a better service for our partners. The only current option for students/employees is a curriculum NDT program. This requires a long duration of absence from work, which is difficult for employers to absorb.

Credentialing Information:
American Standards Nondestructive Testing (ASNT)
https://www.asnt.org/

Request for Course Modification 1 of 4
Requesting College or Agency: North Carolina Community College System Office

Course ID	Course Title	Current Hours	Requested Hours	Current Tier Level
CJC 3928	Instructor Training-General	80	90	3

Rationale:

- The NC Criminal Justice Education and Training Standards Commission has increased the minimum hours for this certification course to 90, effective January 1, 2021. This request to increase the hours will align the course with this new standard.

Credentialing Information: https://ncdoj.gov/law-enforcement-training/criminal-justice/contact/

Request for Course Modification 2 of 4
Requesting College or Agency: Cape Fear Community College

Course ID	Course Title	Current Hours	Requested Hours	Current Tier	Requested Tier
CJC 3941	Detention Officer Certification	174	196	2	1B

Rationale:

- This is a request to modify the hours and tier designation of CJC-3941 from Tier 2 to Tier 1B. The course leads to state certification, is longer than 96 hours, meets an identified industry need, and is in significant demand statewide.
- This course is mandated by the NC Sheriffs' Education and Training Standards Commission for all detention officers working in county detention centers (local jails) within the first year of employment. The detention officer's job is a high demand job, and it is the constitutional duty of every elected sheriff in North Carolina to ensure that detention centers are appropriately staffed. Employment data shows consistently high demand.

Request for Course Modification 3 of 4
Requesting College or Agency: Lenoir Community College

Course ID	Course Title	Current Hours	Requested Hours	Current Tier Level
ELC 3016	Electrical Contractor Prep	24	120	3

Rationale:

- When originally designed the course prepared individuals by reviewing just the National Electrical Code (NEC) – the only requirement to pass the test successfully. Today, successful students must be knowledgeable not only in NEC, but also National Fire Alarm Code (NFPA72), Electrical Contractors Licensing Law, General Statutes Chapter 87, Article 4 and Title 21, North Carolina Administrative Code Chapter 18B, Contractors Guide to Business, and Law and Project Management-North Carolina Electrical Edition (NASCLA).

Request for Course Modification 4 of 4
Requesting College or Agency: Wake Technical Community College

Course ID	Course Title	Current Hours	Requested Hours	Current Tier Level
ATR 3115	Mechatronics	275	333	1B

Rationale:

- The increase in hours will allow for the Mechatronics Junior Technician Apprenticeship to be taught for approximately 12 weeks with content to include: Onboarding & Safety; Industrial Electricity I; Mechanical Components I; Fluid Power I; PLC I. Students will work on Amatrol equipment, which is industry-recognized equipment used by industrial and warehouse-based companies. Students will fill an operational need for highly skilled and trained technicians in the mechatronics and robotics field
- Average annual wages for individuals in this occupation range from $29K - $41K with significant opportunities for advancement with additional experience and the attainment of additional credentials. According to Labor Market Information from Burning Glass, employment opportunities for Manufacturing/Production Technicians are expected to increase by 9.3% through 2030 in Wake County.

Credentialing Information: Upon completing each module of the program (except Onboarding & Safety), students will be eligible for certifications in each area from Packaging Machinery Manufacturers Institute. Upon attaining all credentials, a student is employable with manufacturing employers. Individuals possessing PMMI credentials are highly sought after by area companies that utilize Amatrol technology and equipment.

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