



NORTH CAROLINA COMMUNITY COLLEGE SYSTEM
Thomas A. Stith III
President

NUMBERED MEMO CC21-044

TO: Community College Presidents
Chief Academic Officers

FROM: Thomas A. Stith III
System President

DATE: September 20, 2021

SUBJECT: Curriculum Standard Revision Approval
Applied Engineering Technology (A40130), Automation Engineering Technology (A40120), Mechatronics Engineering Technology (A40350), and Mission Critical Operations (A40430) (Common Technical Cores)

Per 1D SBCCC 400.9(b), a revision of an existing curriculum standard shall:

- (1) Have written concurrence by two-thirds of colleges approved to offer the curriculum program; and
- (2) Be in alignment with criteria outlined in 1D SBCCC 400.10(e).
- (3) The President of the North Carolina Community College System shall have the authority to approve or deny the revision of an existing curriculum standard.

I am pleased to approve the requested revisions for the following attached curriculum standards which are in compliance with 1D SBCCC 400.9(b):

Applied Engineering Technology (A40130), Automation Engineering Technology (A40120), Mechatronics Engineering Technology (A40350), and Mission Critical Operations (A40430)

An outline of the specific curriculum standard revisions is attached for your convenience. You may view all curriculum standards by visiting the Academic Programs website at:

<https://www.nccommunitycolleges.edu/academic-programs/curriculum-standards>

If you have any questions concerning the curriculum standard revisions, please contact Dr. Frank Sculetta at 919.807.7114 or sculettaf@nccommunitycolleges.edu.

TS/FS/gr

C: Dr. Kimberly Gold Dr. Deana Guido Program Coordinators
Dr. Lisa Eads Dr. Frank Sculetta

Outline of Revisions to Common-Core Curriculum Standards

Applied Engineering Technology (A40130), Automation Engineering Technology (A40120), Mechatronics Engineering Technology (A40350), and Mission Critical Operations (A40430) (Common Technical Cores)

Revision: Added DFT 119 and DFT 154 course options to the Technical Core of the above-listed curriculum standards. Added ELC 112, ELN 260, and TEX 110 course options to the subject areas of the Applied Engineering Technology (A40130) curriculum standard:

A. Technical Core:

CIS	110	Introduction to Computers	3 SHC
EGR	111	Eng Comp and Careers	3 SHC
EGR	125	Appl Software for Tech	2 SHC
ELC	127	Software for Technicians	2 SHC
<u>DFT</u>	<u>119</u>	<u>Basic CAD</u>	<u>2 SHC</u>
<u>DFT</u>	<u>154</u>	<u>Intro to Solid Modeling</u>	<u>3 SHC</u>

Electricity

Choose one:

<u>ELC</u>	<u>112</u>	<u>DC/AC Electricity</u>	<u>5 SHC</u>
ELC	131	Circuit Analysis I	4 SHC
ELC	138	DC Circuit Analysis	4 SHC
ELC	139	AC Circuit Analysis	4 SHC

Motors and Controls

Choose one:

ELC	117	Motors and Controls	4 SHC
ELC	128	Intro to PLC	3 SHC
<u>ELN</u>	<u>260</u>	<u>Prog Logic Controllers</u>	<u>4 SHC</u>

Specialty

Choose one:

ATR	112	Intro to Automation	3 SHC
CET	110	Intro to CET	1 SHC
ELN	131	Analog Electronics I	4 SHC
MEC	110	Intro to CAD/CAM	2 SHC
<u>TEX</u>	<u>110</u>	<u>Fund of Textiles</u>	<u>3 SHC</u>

Rationale: The requesting college stated that the added flexibility of the proposed additional course offerings would promote course alignment across multiple program areas; thereby, providing benefit to both students and the institution. Colleges wishing to retain their current program course offerings may continue to do so.