



Louisiana Community and Technical College (LCTC) System

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Richard Nelson, President
Tim Hardy, Board of Supervisors Chair

TO: Richard Nelson
LCTC System President

THROUGH: Dr. Chandler LeBoeuf WCL
Executive Vice President of Education Strategy and External Relations

FROM: Ingrid N.P. Cook INPC
Executive Director for Institutional Research and Planning

DATE: October 14, 2026

SUBJECT: Program Requests at Northshore Technical Community College

10/14/26 APPROVED
LCTCS BOARD OF SUPERVISORS

FOR BOARD ACTION

Recommendation: Staff recommends that the LCTC System Board of Supervisors approve the following program requests listed below.

Program Additions

1. Technical Diploma in Drafting & Design Technology (CIP 15.1301) - **5 STARS**
2. Technical Diploma in Advanced Building Systems Technology (CIP 15.0501) - **0 STARS**

Background: The proposed Technical Diploma in Drafting & Design Technology has been redesigned to provide students with the knowledge and competencies to be successful in the drafting profession and meet industry standards. This Technical Diploma provides additional guidance in technical writing and AutoCAD coursework to enhance the current CTS in Drafting and Design Technology. The proposed Technical Diploma in Building Automation Systems has been developed to provide students with the knowledge and skills needed to be successful in the automation of HVAC systems.

Fiscal Impact: This administrative structure and allocation of departmental funds will be unchanged, unless otherwise noted.

History of Prior Actions: The history of revising and creating new programs to meet student and workforce needs.

Benefits to the System: The approval of this request will allow Northshore Technical Community College to better meet student and workforce needs.

Approved for Recommendation to the Board
Richard Nelson

10/14/26

Date

Ingrid Cook

From: Daniel Roberts <danielroberts@northshorecollege.edu>
Sent: Wednesday, September 9, 2026 11:40 AM
To: Ingrid Cook
Cc: Chandler LeBoeuf
Subject: RE: TD Drafting Adoption Request

**** External Email ****

Good morning,

We were able to finalize the following curriculum outline for our Technical Diploma in Drafting & Design Technology:

Course	Title	Credit Hours
DRFT 1101	Drafting Fundamentals	3
DRFT 1102	Introduction to AutoCAD	1
DRFT 1103	Geometric Construction	3
DRFT 1107	AutoCAD Lab	2
DRFT 1105	Materials & Manufacturing Technologies	3
DRFT 1106	Introduction to Revit	1
DRFT 1108	Revit Lab	2
DRFT 1201	Architectural Drafting	3
DRFT 1203	Parametric Modeling	1
DRFT 1206	Parametric Modeling Lab	2
DRFT 1207	Intermediate Revit	3
DRFT 1202	Mechanical Design	3
DRFT 1204	Pipe Drafting	3
Certificate of Drafting Design Technician		30
DRFT 1221	Intermediate AutoCAD	3
DRFT 1205	Capstone	5
DRFT 1208	Drafting Communication & Technical Writing	4
SPCH 1025	Introduction to Interpersonal Communication	3
Technical Diploma in Drafting & Design Technology		45

Thank you.
Daniel

Daniel Roberts, PhD

Provost and Vice Chancellor of Academic & Student Affairs

Northshore Technical Community College

Good afternoon,

Please find attached SOWELA Technical Community College's request to adopt the Technical Diploma in Drafting & Design Technology.

If you need any additional information or documentation to support this board item request, please let me know. Thank you for your consideration.

Sincerely,
Daniel

Daniel Roberts, PhD

Provost and Vice Chancellor of Academic & Student Affairs

Northshore Technical Community College

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LCTC Credit Program Proposal

Type of Action and College Selection

Type of Action	Adopt Existing Program
College	Northshore Technical Community College

Credit Program Proposal

Program Name	Technical Diploma in Drafting & Design Technology
Program CIP Code	15.1301
Total Program Credit Hours	45
Total Program Contact/Clock Hours	0
Award Levels in the Program	Technical Diploma (TD)

Award Levels (include any exit/embedded credentials)

Credential Name	Award Level	CIP Code	Star Level	Credit Hours	Contact Hours	Program Delivery Mode	Embedded IBCs (Required for a CTC)
Drafting Design Technician	CTS - Certificate of Technical Studies	15.1301	4	30	0	Standard	

Description of Proposed Change

The college previously offered a Technical Diploma in Drafting & Design Technology but discontinued the Technical Diploma exit point based on industry recommendations at that time. Over the past six years, the college has offered only the Certificate of Technical Studies in Drafting Design Technician. Current workforce and program data, however, indicate that reinstating the Technical Diploma is necessary to provide students with the additional technical knowledge and competencies needed for success in the drafting profession and to better align the program with employer expectations.

Implementation Date/Semester

Spring 2027

Program Delivery Format

Day

Hybrid (51-99% online)

Justification for the Proposed Change

Industry partners recommending the additional exit point for graduates going to work in the field.

History of Prior Actions

NTCC previously had the Technical Diploma in Drafting & Design Technology exit point.

Is Accreditation Required?

No

Enrollment Projection Table

	Year 1	Year 2	Year 3	Year 4	Year 5
Projected Enrollment	10	20	30	30	30

Description of Enrollment Process

Full-time enrollment

Program Locations

Lacombe Campus

Administrative Impact Description

N/A

Plan for Providing Qualified Faculty

Use Existing Faculty

Required Faculty

Number of Full-Time Faculty: 1

Number of Part-Time Faculty: 2

Minimum Credentials Required for Faculty

Education:: Associate degree or equivalent experience/certifications

Experience:: Associate degree or equivalent experience/certifications

Certifications:: Associate degree or equivalent experience/certifications

Implementation Costs Description

N/A

Benefits Discussion

Students in the current Certificate of Technical Studies program can continue toward a Technical Diploma and an Associate of Applied Science in Technical Studies Degree.

MEMORANDUM

TO: Chandler LeBoeuf, EdD
Executive Vice President

THROUGH: Jim Carlson
Chancellor

FROM: Daniel Roberts
Provost and Vice Chancellor of Academic & Student Affairs

DATE: September 21, 2026

SUBJECT: NTCC New Technical Diploma Request

Northshore Technical Community College is requesting to create a Technical Diploma in Advanced Building Systems Technology (CIP 15.0501) with a fall 2027 implementation. The star rating was not available on the Louisiana Works website.

The Advanced Building Systems Technology (ABST) technician installs, program, troubleshoots, and repairs technology that controls the mechanical and electrical systems of a building. They maintain the systems that manage heating, ventilation and air conditioning (HVAC), lighting, security, and fire safety. Their job focuses on energy efficiency, safety, and occupant comfort. It is a new profession that can fall under several Bureau of Labor Statistics categories. Some career firms such as KAPLAN classify ABST technicians under the Heating, Air Conditioning, and Refrigeration Mechanics and Installers category, while a Google search will place ABST technicians under the Electro-mechanical and Mechatronics Technologies or Control and Valve Installers and Repairers. Regardless of how it is classified, ABST technicians are in increasing demand as industries increase their presence in Louisiana; data centers, distribution centers, and aerospace to name a few. These new buildings will require ABST technicians to construct and maintain their systems. To help meet this demand, and build futures for Louisiana residents, Northshore Technical Community College is establishing the Advanced Building Systems Technology (ABST) program. This program will be among the first accredited programs in the country and will lead to careers with a median pay of \$61,000 – \$79,000 per year.

Curriculum Outline

Course	Title	Credit Hours
ABST 1000	Fundamentals of BAS	3
ABST 1010	Print Reading for HAVCR	3
ABST 1020	Electrical Fundamentals for the Building Trades	3
ABST 1030	Electronics and Digital Controllers	3
ABST 1040	Commercial Environmental Systems	3
ABST 1050	Control Circuits for Environmental Systems	3
ABST 1060	Networking for BAS	3
ABST 1070	PLC Installation & Programming	3
ABST 1080	NEC for Low-Voltage Systems	3
ABST 1090	Introduction to Programming for BAS	3
ABST 2010	Building Controllers	4
ABST 2020	Project Management	4
ABST 2030	BAS Design & Installation	3
ABST 2040	BAS Integration	4
Technical Diploma in Advanced Building Systems Technology 15.6		45

LCTC Credit Program Proposal

Type of Action and College Selection

Type of Action	New Program
College	Northshore Technical Community College

Credit Program Proposal

Program Name	Building Automation Systems
Program CIP Code	15.0501
Total Program Credit Hours	45
Total Program Contact/Clock Hours	900
Award Levels in the Program	Technical Diploma (TD)

Award Levels (include any exit/embedded credentials)

Credential Name	Award Level	CIP Code	Star Level	Credit Hours	Contact Hours	Program Delivery Mode	Embedded IBCs (Required for a CTC)
TBD							

Description of Proposed Change

The Building Automation System (BAS) technician installs, program, troubleshoots, and repairs technology that controls the mechanical and electrical systems of a building. They maintain the systems that manage heating, ventilation and air conditioning (HVAC), lighting, security, and fire safety. Their job focuses on energy efficiency, safety, and occupant comfort. It is a new profession that can fall under several Bureau of Labor Statistics categories. Some career firms such as KAPLAN classify BAS technicians under the Heating, Air Conditioning, and Refrigeration Mechanics and Installers category, while a Google search will place BAS technicians under the Electro-mechanical and Mechatronics Technologies or Control and Valve Installers and Repairers. Regardless of how it is classified, BAS technicians are in increasing demand as industries increase their presence in Louisiana; data centers, distribution centers, and aerospace to name a few. These new buildings will require BAS technicians to construct and maintain their systems. To help meet this demand, and build futures for Louisiana

residents, Northshore Technical Community College is establishing the Building Automation System Controls (BASC) program. This program will be among the first accredited programs in the country and will lead to careers with a median pay of \$61,000 – \$79,000 per year.

Implementation Date/Semester	Fall 2027
Program Delivery Format	Day Hybrid (51-99% online)

Justification for the Proposed Change

The Building Automation System (BAS) technician installs, program, troubleshoots, and repairs technology that controls the mechanical and electrical systems of a building. They maintain the systems that manage heating, ventilation and air conditioning (HVAC), lighting, security, and fire safety. Their job focuses on energy efficiency, safety, and occupant comfort. It is a new profession that can fall under several Bureau of Labor Statistics categories. Some career firms such as KAPLAN classify BAS technicians under the Heating, Air Conditioning, and Refrigeration Mechanics and Installers category, while a Google search will place BAS technicians under the Electro-mechanical and Mechatronics Technologies or Control and Valve Installers and Repairers. Regardless of how it is classified, BAS technicians are in increasing demand as industries increase their presence in Louisiana; data centers, distribution centers, and aerospace to name a few. These new buildings will require BAS technicians to construct and maintain their systems. To help meet this demand, and build futures for Louisiana residents, Northshore Technical Community College is establishing the Building Automation System Controls (BASC) program. This program will be among the first accredited programs in the country and will lead to careers with a median pay of \$61,000 – \$79,000 per year.

Is Accreditation Required?	No
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Description of Enrollment Process

N/A

Program Locations

Hammond Area Campus

Administrative Impact Description

N/A

Plan for Providing Qualified Faculty	Use Existing Faculty
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Required Faculty	Number of Full-Time Faculty: 1
	Number of Part-Time Faculty: 1

Minimum Credentials Required for Faculty	Education:: Associate Degree or Equivalent Experience and Industry Certifications
	Experience:: Certifications::

Implementation Costs Description

N/A

Benefits Discussion

The Building Automation System (BAS) technician installs, program, troubleshoots, and repairs technology that controls the mechanical and electrical systems of a building. They maintain the systems that manage heating, ventilation and air conditioning (HVAC), lighting, security, and fire safety. Their job focuses on energy efficiency, safety, and occupant comfort. It is a new profession that can fall under several Bureau of Labor Statistics categories. Some career firms such as KAPLAN classify BAS technicians under the Heating, Air Conditioning, and Refrigeration Mechanics and Installers category, while a Google search will place BAS technicians under the Electro-mechanical and Mechatronics Technologies or Control and Valve Installers and Repairers. Regardless of how it is classified, BAS technicians are in increasing demand as industries increase their presence in Louisiana; data centers, distribution centers, and aerospace to name a few. These new buildings will require BAS technicians to construct and maintain their systems. To help meet this demand, and build futures for Louisiana residents, Northshore Technical Community College is establishing the Building Automation System Controls (BASC) program. This program will be among the first accredited programs in the country and will lead to careers with a median pay of \$61,000 – \$79,000 per year.

Signature: Ingrid N.P. Cook
Ingrid N.P. Cook (Oct 7, 2026 07:48:12 CDT)

Email: ingridcook@lctcs.edu

Signature: W. Chandler Leboeuf
W. Chandler Leboeuf (Oct 7, 2026 07:39:21 PDT)

Email: chandlerleboeuf@lctcs.edu

Consent Agenda - Program Requests at Northshore Technical Community College

Final Audit Report

2026-10-07

Created:	2026-10-06 (Central Daylight Time)
By:	Ericka Poole (erickapoole@lctcs.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAiM0Xo1yG44cU78Vd7femCgT6Uyx9RbQS

"Consent Agenda - Program Requests at Northshore Technical Community College" History

-  Document created by Ericka Poole (erickapoole@lctcs.edu)
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