

## NACTEL/Pace University Technical Badges

**Badging unbundles the skills and competencies** earned in credit-bearing courses and allows the badge earner to connect their learning to immediate job opportunities through social media. Using the Credly badging platform, Pace University and NACTEL have designed high-tech badges using existing credit-bearing courses that match the skill and competencies needed by the telecom industry. The Credly platform connects the learning outcomes of each badge with career opportunities.

### Badges in Telecom Technical Skills

Telecom Technical Skills Digital Badges are a quick way to acquire telecom skills and build credit toward earning a degree. As a NACTEL Badging student you can choose to earn one or more Badges. To qualify for a Badge you must:

- Successfully maintain an overall 2.0 QPA
- Successfully complete all but 4 credits of the badging courses with Pace University (meaning you can only transfer one equivalent course from another institution or Prior Learning experience while you are a badging student)
- Students will complete the Badge Application found in the [Student Information Center](#) when they have completed all of the courses to earn that Credly Badge
- Students can apply up to 25 credits earned as a non-degree seeking student to a degree
- Students must successfully complete the [Orientation to Online Learning \(Online Seminar\)](#) course that is required for students taking single courses and/or the badging programs
- Students must fulfill any required pre-requisite courses prior to registering for any courses

**Because badging courses are offered at a special rate, you can only take badging courses while badging. When you want to apply your badging courses to your degree, contact [Nactel\\_support@pace.edu](mailto:Nactel_support@pace.edu)**

### Level 1 Badge: Telecom Essentials

This badge (8 Credits) is designed to provide you with entry-level knowledge of the telecommunications industry. This badge is required to move on to Level 2 or 3 badges. You may apply for this badge after completing the required courses regardless of whether or not you choose to continue on and earn your [Associate of Science in Applied Information Technology Degree](#).

Level 1	Telecom Essentials Badge*	Credits	Required /Elective
AIT107	<a href="#">Computer Applications</a>	4	R
AIT109	<a href="#">Global Telecom Essentials</a>	4	R

## Level 2 Badge: Telecom Core

This badge (12 credits) is designed to provide you with basic knowledge of the electronics needed for a complete understanding of the telecommunications industry. You may apply for this badge after completing the required courses regardless of whether or not you choose to continue on and earn your [Associate of Science in Applied Information Technology, Telecommunications Degree](#).

*Requires Telecom Essentials Badge*

The credits earned in the **Telecom Core** badge can be applied to the:

[Associate of Science in Applied Information Technology, Telecommunications Track](#)

[Associate of Science in Applied Information Technology, Wireless Track](#)

Level 2	Telecom Core Badge*	Credits	Required /Elective
MAT125	<a href="#">Technical Math I</a>	4	R
AIT111	<a href="#">AC/DC Electrical Circuits</a>	4	R
CIT211	<a href="#">Introduction to Computer System Hardware</a>	4	R

## Level 2 Badge: IT Core

This badge (8 credits) introduces students to the core IT skills (8 credits) needed to work with intermediate networking and security systems. Upon completing this badge, the student can compete for intermediate positions in the networking and security field.

*Requires Telecom Essentials Badge*

The credits earned in the **IT Core Badge** can be applied to ALL of the [AS in Applied Information Technology Degree: Tracks](#).

Level 2	IT Core Badge*	Credits	Required /Elective
CIT251	<a href="#">Computer Security Overview</a>	4	R
CIT221	<a href="#">Global Networking Technology</a>	4	R

## Level 2 Badge: IT Skills

This badge (6 credits) introduces students to intermediate concepts and applications that provide production level skills for the workplace. This six credit intermediate badge supports the skills needs for more advanced badges.

*Requires Telecom Essentials Badge*

Level 2	IT Skills Badge*	Credits	Required /Elective
CS 199 H	<a href="#">Topic: Unix Fundamentals</a>	1	R
CIS102N	<a href="#">Topic Intro to Project Management</a>	1	R
CIT122	<a href="#">Advanced Spreadsheets Skills</a>	2	R
CIS133	<a href="#">Social Media Applications</a>	2	R

### Level 3 Badge: Networking Technologies

This badge (11 credits) provides advance study of networking concepts, including math, computing, communication, and software designed networking and cloud computing and advanced security. Upon completing this badge, the student can compete for entry-level technical positions.

*Requires IT Core and Telecom Core Badge*

Course	Networking Technologies*	Credits	Required /Elective
CIT223	<a href="#">Introduction to Software Defined Networking</a>	4	R
CIT224	<a href="#">Cloud Computing</a>	4	R
CIT252	<a href="#">Overview of Network and Internet Security</a>	3	R

### Level 3 Badge: Data Analytics

This badge (11 credits) introduces the students to intermediate data analytics concepts, including python programming, database, statistical analyses. Upon completing this badge, the student can compete for intermediate and advanced positions in the telecommunications industry.

*Requires Telecom Core Badge*

Level 3	Data Analytics*	Credits	Required /Elective
CIT 201	<a href="#">Introduction to Programming Using Python</a>	3	R
CIT241	<a href="#">Database Management</a>	4	R
MAT117	<a href="#">Elementary Statistics</a>	4	R

### Level 3: Telecom Technologies

This badge (16 credits) introduces students to intermediate concepts and applications of Mobile technologies. This is an intermediate badge program and the Telecom Core Badge has to be completed prior to taking this badge.

*Requires Telecom Core Badge*

The credits earned in the Telecom Technologies Badge can be applied to the [BS Degree in Telecom](#)

Level 3	Telecom Technologies Badge* (Choose 3 of the following 4 courses)	Credits	Required /Elective
AIT383	<a href="#">Emerging Wireless Technologies</a>	4	R
AIT371	<a href="#">Fiber Optics</a>	4	R
AIT381	<a href="#">Emerging Broadband Technologies</a>	4	R
AIT382	<a href="#">Voice over IP Technologies</a>	4	R

#### NOTE:

\* Not every course will be offered every term.

## How do I sign up for a badging program?

Please complete the form located on this page <https://paceinfo.pace.edu/nactel-badge-program> to receive an email when application and registration opens.

If you are a former NACTEL student and want to return to the NACTEL program as a badging student, please contact [Nactel\\_support@pace.edu](mailto:Nactel_support@pace.edu)