NORTHEAST WISCONSIN TECHNICAL COLLEGE
CATALOG 2012-2013

GET TECHNICAL ▶ GET A CAREER

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🐦 twitter.com/NWTC

Northeast
Wisconsin Technical College
web: nwtc.edu

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HOW to CONTACT NWTC

You'll find web shortcuts and contact phone numbers on each page to connect you with more information.

E-mail: more.info@nwtc.edu

Phone: (920) 498-5444 or (888) 385-6982

Chat: Visit **www.NWTC.edu** and enter "**Ask NWTC**" in the search box

In Person: To find NWTC locations, visit **www.NWTC.edu/directions**

NWTC is over 100 years old! See our
history at www.nwtc.edu/100years

YOUR
SUCCESSFUL FUTURE
STARTS AT NWTC

If your goal is A GREAT CAREER, NEW JOB SKILLS OR A BETTER LIFE—ACHIEVE IT with Northeast Wisconsin Technical College.

- Study business, health, law enforcement, advanced technology and more.
- Choose from one-year and two-year degrees, and apply for financial aid.
- Choose a certificate to build specific skills quickly.
- For assistance choosing a program, try our free career or advising services.
- If there's any obstacle in your way, we're here to help.

Why YOU'LL BE HAPPY you chose NWTC

- You can find a future that's a perfect fit for you, with more than 200 career fields from which to choose.
- Small class sizes let you get to know your instructors and other students.
- Lots of free parking—hey, we want you here!
- We welcome walk-in visitors, plus our call center and web site bring NWTC services to you anywhere.
- NWTC is always in your neighborhood, thanks to online learning and regional learning centers.

GET TECHNICAL.
GET A CAREER
at NORTHEAST
WISCONSIN
TECHNICAL
COLLEGE.

YOU CAN get there from here.

Every day, we help people choose a direction and prepare for their careers. We walk the path with them, past every obstacle, all the way to graduation.

FIND A CAREER ▶ THAT FITS

You want a career that uses your talents and feels right. But you're not sure what's out there, and what would be a good fit. A visit to NWTC Career Services is all about career exploration, career awareness and job-seeking assistance. It's ideal for both adults and students, whether you're just starting out, dislocated or changing career fields.

What YOU CAN DO in Career Services:

- Use free tools to match your interests with careers
- Investigate details of specific occupations
- Look for jobs online
- Learn which careers are in high demand
- Improve your resume and interview skills

DID YOU KNOW?
Career Center services are free and open to the public.

▶ LEARN MORE

About Careers:
www.nwtc.edu/careers

About Resources and Services:
www.nwtc.edu/services

We'll help YOU GET THE SKILLS (and scores) YOU NEED

Many students need to brush up on academic skills before taking General Studies courses or starting a degree or diploma program. NWTC offers classes, seminars and self-paced resources so you have the reading, writing, math and study skills you need to succeed.

Make BETTER CHOICES with Advising

Decisions, decisions. Which program would be best? Degree, diploma or certificate? Full-time or part-time? In person or online?

Advising can assist you in making informed choices about your education. They can help with identifying career goals, applying for financial aid, choosing and scheduling classes and more.

Keep up with class: TUTORING AND LABS

If you ever have trouble meeting course requirements, help is available. Tutoring services are offered in open labs for math, writing, basic computer skills and most science courses; just drop in any time during posted hours. In other subjects, students can request a one-on-one tutor.

ADULTS are very WELCOME

Adults who want new skills or new careers will find lots of company—and helpful services—at NWTC. For instance:

- In the ACES Club (Adults on Course for Excellence and Success), dislocated workers and adult learners help each other succeed by sharing resources, ideas and activities.
- Dislocated worker services help individuals find resources and prepare for successful new careers.
- Non-Traditional Occupation Services promote career exploration in high-demand career fields where one gender is underrepresented.
- The Plus 50 office helps adults over age 50 transition into college and new careers.
- Single parents and divorced individuals can find expert advice to address their college challenges.

VETERANS

NWTC's Veterans Services can answer questions, connect you with resources and introduce you to the student Veterans Club. Visit **www.NWTC.edu** and enter "**veterans**" in the search box.

YES,
YOU can afford college.

Sure, college is an investment in your future—but it can still be affordable now, with loans, grants, scholarships, work-study jobs, payment plans and more.

If you have questions or want ideas for funding your education, contact Enrollment Services. We have years of experience and lots of great tips.

For example…

Q. When should I apply for financial aid?

A. As soon as possible after January 1.

Q. Why should I apply as early as possible?

A. Financial aid funds are limited. Each year, aid is awarded until funds run out. Apply early so you won't miss your chance.

NWTC is ACCREDITED and AFFORDABLE!

Some ways NWTC STUDENTS pay for college

▶ Financial Aid

Apply to receive (free) grants, low-interest loans and work-study jobs. Everyone who applies for an aid-eligible degree or diploma should also apply for financial aid.

How to get it: Fill out the Free Application for Federal Student Aid at **www.fafsa.gov.** You'll need NWTC's Title IV School Code: 005301

▶ Scholarships

Scholarships are offered through the NWTC Educational Foundation and many other public and private sources.

▶ Payment Plan

Divide tuition and book costs into easy monthly payments. There's no interest and no setup fee.

▶ Total Cost for Each Degree

To see the total cost of completing each degree, visit **www.nwtc.edu** and enter **"cost"** in the site search box.
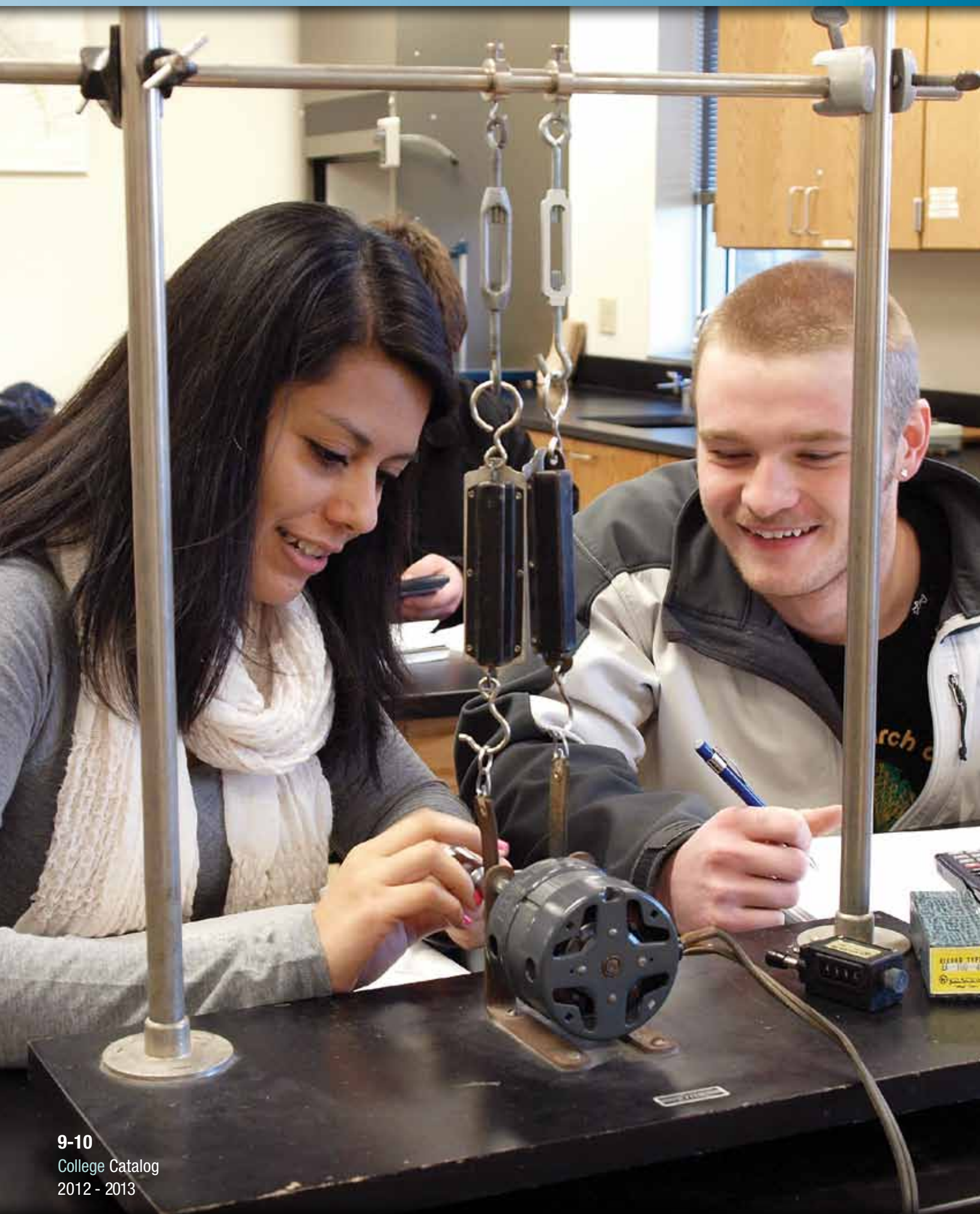
▶ LEARN MORE:
www.nwtc.edu/payingforcollege

CALL ENROLLMENT SERVICES:
(920) 498-5444 or (888) 385-6982

E-MAIL:
finaid@nwtc.edu

How do YOU LIKE TO LEARN?

If you've ever said "Let me try that!" you'll like hands-on learning.

Sure, we like lively classroom discussions about questions that matter. And our instructors have great real-world stories to tell. But NWTC students can also...

- program manufacturing robots
- treat ill patients
- provide concert security
- host an event that makes the evening news

...because learning hands-on helps students understand, remember and use what they've read and heard. Hands-on learning works.

Hands-on is what makes NWTC DIFFERENT. Students and employers say it's what makes NWTC BETTER.

LEARN WHERE, WHEN AND▶ HOW YOU PREFER

When you want to know something new, what do you do? Ask an expert? Go find some tools and a workbench? Look it up on YouTube? Check with friends? Read an article?

Whether you prefer traditional classes and labs or your home computer, NWTC has options for you, like:

- **Regional Learning Centers:** Classes, degrees and services are offered near where you live and work
- **Online courses and eTech College:** Learn online
- **Classes on videotape or DVD:** Play, learn, repeat
- **Accelerated Learning:** More independent projects, fewer class meetings
- **Self-Paced Learning:** Students study when they wish, and come to campus for assistance or assessments
- **Weekend College:** Classes on Friday nights and Saturdays
- **Certificates:** Focus on just the skills you need
- **Interactive Television:** Two-way video brings classes anywhere to you

▶ LEARN MORE: **www.nwtc.edu/flexible**

YOUR COMFORT ZONE.
LIVE IN IT…GO BEYOND IT.
Student life at NWTC can be FULL of SURPRISES.

Expand your mind
Meet students from another country, help raise funds for disaster relief, hear national speakers, become a campus leader or compete for national awards.

Get involved
With over 30 clubs and dozens of events every year, there's always something extra going on.

Relax
Kick back with a live band, join your friends at the café, become a flag football star, or see a drive-in movie.

Get out and play
We've got acres of green space where students can be found playing Frisbee, running, playing soccer and more.

Get moving
With intramural sports and the Wellness Center, there's always an opportunity to be active.

SO GO AHEAD.

REINVENT YOUR COMFORT ZONE and

REDISCOVER YOURSELF.

Come to the
STUDENT CENTER!

Have extra time between classes? Want to meet up with classmates to discuss a project? On the Green Bay Campus, the Student Center offers student life, student services, and...

Welcome Center: Your all-in-one resource for registering, meeting advisors and counselors, obtaining financial aid, applying for admission and more.

Commons: Full-service cafeteria offers a variety of hot and cold selections, like made-to-order sandwich wraps, salad bar, burgers and pizza. Vending area offers meals and snacks during all campus operating hours.

Game Room: Relax with pool, ping pong, board games and more—plus lots of chairs for "sideline coaches." Don't forget to sign up for competitions!

Movie Lounge: Major films are shown regularly, day and evening.

Campus Buzz Café: If the smell of coffees, teas and desserts is calling you, you're headed for the café. You'll find lots of soft comfy chairs and unique gifts as well!

Digital Lounge: Grab a computer for recreational use and enjoy the casual atmosphere where you can relax or meet friends.

Bookstore: Come in and browse the large inventory of new and used books available at the campus bookstore—or buy online.

Library: Features more than 47,000 books, videos, and magazines; provides access to over 36,000 more online; and borrows additional materials from libraries throughout the world. More than 125 computers and 10 study rooms are also available.

Center for Global Cultures: We'll help you succeed in your own way. Students of many cultures find support and language services at the Center for Global Cultures. You'll also find study and gathering space, information about various cultures and news from countries throughout the world, to help all students enrich their education.

▶ LEARN MORE: **www.nwtc.edu/studentlife**

TRAVEL the world, or
MEET IT HERE AT HOME.

Have an amazing college experience you'll never forget! International study offers credits toward your degree or diploma, contacts and friendships from around the world, and insights into places and ideas that can help you succeed after graduation. Students have traveled to Mexico, China, Ghana and more. Upcoming trips include Turkey, Greece and Thailand. NWTC has more opportunities, just waiting for you.

▶ LEARN MORE: **www.nwtc.edu/globalcultures**

APPLY NOW!

NEW FOR 2012:
Apply ANY TIME to ANY PROGRAM

Starting in 2012, ALL NWTC PROGRAMS will accept APPLICATIONS YEAR-ROUND.

Applying early may mean you receive more financial aid and you get your choice of available start dates. But now, if you decide in October that you want to be a nurse, go ahead and apply. Your new career can start sooner than you think!

To do:

1. Apply to NWTC a year before you want to start (or as early as possible).

2. Apply for financial aid in the January before you want to start (or as early as possible).

APPLY ONLINE: go to
www.nwtc.edu/gettingstarted

TO APPLY:

1. Go to **www.nwtc.edu** and **<click>** **Sign Up**

2. Submit a one-time $30 nonrefundable application fee.

3. Submit your high school transcript or equivalent.

4. Supply us with any test scores (ACT, Accuplacer, TABE, Compass or Asset) from the past five years.

5. Request that any colleges you attended submit your transcripts on your behalf.

You can mail items to:

NWTC – Program Enrollment, P.O. Box 19042
2740 W. Mason Street, Green Bay, WI 54307-9042

Another reason to CHOOSE NWTC: NWTC CREDITS can TAKE YOU farther!

Is a bachelor's degree in your future? Then starting at NWTC makes good sense. More than 30 colleges and universities give NWTC graduates credit toward a bachelor's degree. Even more colleges accept individual courses for transfer credit.

High school students can get a head start: Earn NWTC credits during junior and senior year of high school. That can save you money, reduce your course load in college, or get you a degree more quickly.

So NWTC is an affordable, convenient way to begin earning your degree.

▶ LEARN MORE: **www.nwtc.edu/transfer**

ASSESSMENT for PROGRAMS and GENERAL STUDIES

To help students succeed, NWTC requires a placement assessment for everyone who applies to a program or registers for a General Studies course.

The Accuplacer* assessment finds each student's reading, writing and math levels. This allows students to brush up on needed skills and start class well-prepared.

Students may register for general studies classes only after they reach the required skill level.

TAKING the Assessment:

Where:
All NWTC campuses and Regional Learning Centers offer the Accuplacer.

When:
Contact a test location for an appointment.

Bring:
Photo ID and test fee.

What if it says I'm not ready?
You may immediately use NWTC's refresher and skill development resources.

Can I skip it and register anyway?
Nope. That would be bad for you. But we'll help you prepare so you'll succeed on the test and in class. No worries.

* TABE, ACT, Asset or Compass scores can also be used.

It pays to apply early!

ALERT!

The earlier you are accepted, the earlier your financial aid is processed and the more likely you are to get your full financial aid award. AND Students are admitted on a first-come, first-served basis.

CHECK OUT THESE FACTS

2011 NWTC GRADUATE FOLLOW-UP REPORT

Associate degree graduates earn $36,085 within six months of graduation (median salary).

89% of graduates are employed within six months of graduation – 79% of those graduates are working in jobs related to their career field.

75% of graduates stay and contribute to Northeast Wisconsin's economic development; 96% stay and work in the state.

98% of graduates are "very satisfied" or "satisfied" with the training they received at NWTC.

89% Employed

11% Seeking Employment

Nearly 20 job orders for every graduate in Electronics

There are nearly 400 job orders in Marketing

Starting salary in Utilities Engineering Technology is $62,395

Primary Reason for Attending NWTC

- 40% Preparation for Job
- 24% Career Change
- 13% Preparation for Further Education
- 11% Improve Existing Job Skills
- 10% Personal Interest
- 2% Other
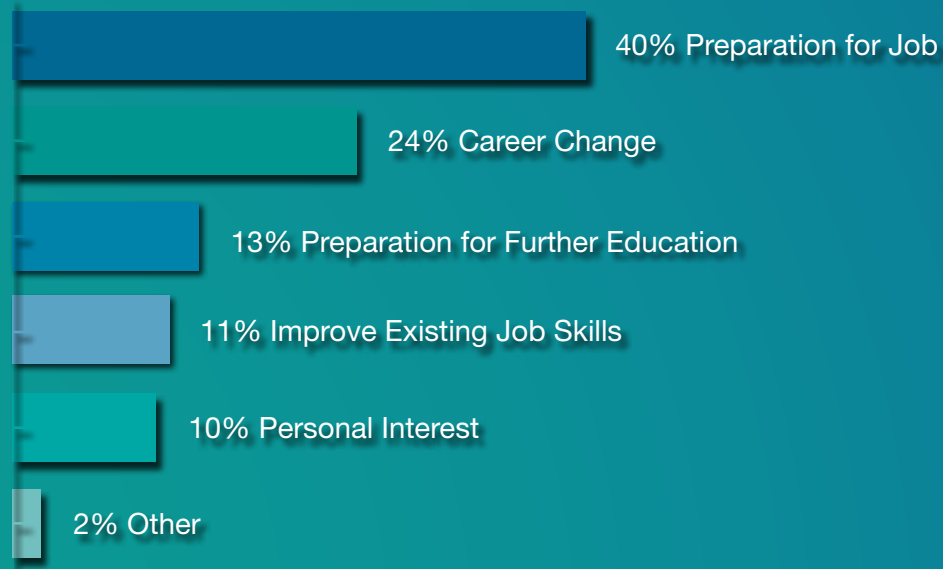
Location of Employment
Employed graduates, all jobs

75% are employed in the District

96% are employed in the State

Satisfaction with Training

- Very Satisfied 62%
- 37% Satisfied
- Unsatisfied or Very Unsatisfied 2%
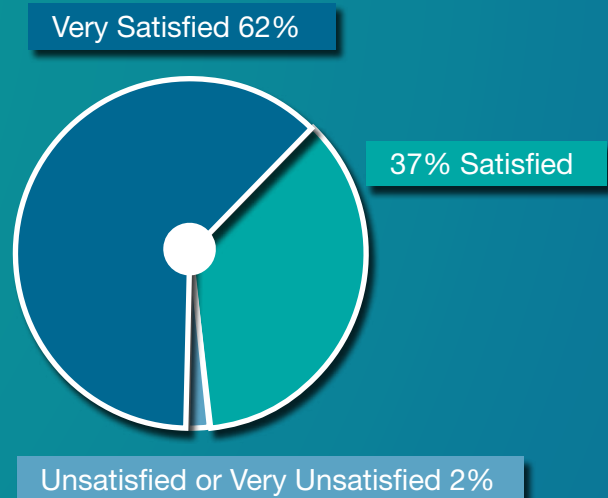
LEARN MORE: **www.nwtc.edu/careers**

29 degree programs had 100% graduate employment

Starting salary in Electro-Mechanical Technology is $57,623

Nearly 20 job orders for every graduate in Supply Chain Management

PROGRAMS

Choose from OVER 100 associate degrees, technical diplomas, and apprenticeships PLUS OVER 80 certificates.

AGRICULTURE, FOOD AND NATURAL RESOURCES ▶ PAGES 21-24

Environmental Engineering – Waste and Water Technology
Farm Business and Production Management
Landscape Horticulture
Solar Energy Technology
Vineyard Management (Viticulture)
Wind Energy Technology
Winemaking (Enology)

ARCHITECTURE AND CONSTRUCTION ▶ PAGES 25-29

Architectural Technology
Civil Engineering Technology
Electrical Power Distribution
Electricity
Energy Management Technology
Gas Utility Construction and Service
Heating, Ventilation, Air Conditioning and Refrigeration Technology
Power Engineer and Boiler Operator
Prototype and Design
Solar Energy Technology
Wood Tech

LEARN MORE

▶ About Programs:
www.nwtc.edu/programs

▶ About Certificates:
www.nwtc.edu/certificates

▶ About Apprenticeships:
www.nwtc.edu/apprenticeship

ARTS, AUDIOVISUAL TECHNOLOGY AND COMMUNICATIONS ▶ PAGES 29-31

Broadcast Captioning
Design and Graphic Technology
Digital Media Technology
Photography
Print Technology
Web Development

BUSINESS, MANAGEMENT AND ADMINISTRATION ▶ PAGES 32-35

Administrative Professional
Business Management
Health Care Business Services
Hotel and Restaurant Management
Leadership Development
Office Professional
Supply Chain Management

EDUCATION AND TRAINING ▶ PAGES 36-37

Early Childhood Education
Individualized Technical Studies
Individualized Technical Studies – Journeyworker
Instructional Assistant

FINANCE ▶ PAGES 37-38

Accounting
Accounting Assistant
Credit Business Management
Financial Institutions Management

CERTIFICATES AND APPRENTICESHIPS

CERTIFICATES offer specific skills in 1-28 credits, so busy students can grow in their career, enter a new field quickly, or earn credits toward a degree or diploma.

An **APPRENTICESHIP** is an earn-while-you-learn program of on-the-job training combined with related classroom instruction.

AGRICULTURE, FOOD AND NATURAL RESOURCES
Certificates
Biofuels
Greenhouse Growers
Horticulture Landscape
Landscape Design – Advanced
Organic Agriculture Practices
Plant Healthcare Management
Renewable Energy – Solar
Renewable Energy – Solar Thermal
Sustainable Design
Vineyard Management
Winemaking
Winemaking – Advanced

ARCHITECTURE AND CONSTRUCTION
Certificates
Applied Graphics for Prototype and Design
CAD
Energy Management
Horticulture Landscape
Landscape Design – Advanced
Maintenance Electricity
Parametric Modeling
Renewable Energy – Solar
Renewable Energy – Solar Thermal
Sustainable Design
Utility Management

ARCHITECTURE AND CONSTRUCTION
Apprenticeships
HVAC
Carpentry
Construction Millwright
Resilient Floor
Electrician Construction
Electrician Residential
Plumbing (JAC)
Plumbing (ABC)
Pipefitter Construction
Line Worker
Sub Station Electrician
Mason – brick, block, stone, cement finisher, tile setter, heavy highway

ARTS, AUDIOVISUAL TECHNOLOGY AND COMMUNICATIONS
Certificates
Applied Graphics for Prototype and Design
Clay
Digital Photography
Digital Photography – Advanced
Digital Printing
Internet Broadcasting
Recording and Audio Engineering
Web Design
Woodturning

BUSINESS, MANAGEMENT AND ADMINISTRATION
Certificates
Advanced Real Estate Sales/Brokerage
Business Operations
Business Writing
Contact Center
Customer Service
Digital Photography
Digital Photography – Advanced
Digital Print Technology
Entrepreneurship
Ethical Leadership

LEARN MORE

▶ About Certificates:
www.nwtc.edu/certificates

▶ About Apprenticeships:
www.nwtc.edu/apprenticeship

Fundamentals of Real Estate Sales
Global Business
Health Care Leadership
Health Care Leadership – Advanced
Health Unit Coordinator
Hotel and Restaurant Management
Paralegal Post Baccalaureate
Promotions and Event Management
Quality Improvement and Innovation
Service Writer
Supervision
Supply Chain Management
Utility Management
Web Design

EDUCATION AND TRAINING
Certificates
Autism
Bilingual/English Language Learning
Cultural and Social Studies
Early Childhood – Advanced
Early Childhood – Childcare Administration
Early Childhood – Foundation
Early Childhood – Infant Toddler
Early Childhood – Intermediate
Early Childhood Licensing – Basic, age 0-2
Early Childhood Licensing – Basic, age 3-5
Early Childhood Premier
Early Childhood, The Inclusion
Early Childhood, The Preschool
General Studies Transfer – UW Green Bay
General Studies Transfer – UW Oshkosh
Introduction to Instructional Assistant Careers
Leadership in Human Relations
Library Assistant
Math – Advanced
Psychology and Behavioral Studies
Social and Human Services
Special Education
Supporting Children's Learning

FINANCE
Certificate
Small Business Bookkeeping

HEALTH SCIENCES
Certificates
Central Service Technician
Echocardiography
Health Care Business Services
Health Care Customer Service Representative
Health Care Leadership
Health Care Leadership Advanced
Health Unit Coordinator
Medical Coding Specialist
Nursing Care of the Geriatric Population
Personal Care Worker
Phlebotomy
Public Dental Health

HOSPITALITY AND TOURISM
Certificate
Hotel and Restaurant Management

HUMAN SERVICES
Certificates
AODA
Leadership in Human Relations
Social and Human Services
Early Childhood *(See Early Childhood Certificates listed in Education and Training)*

INFORMATION TECHNOLOGY
Certificates
Computer Support
Networking
Software Level 1
Software Level 2
Web Design
Website Application Programming

LAW, PUBLIC SAFETY AND SECURITY
Certificates
AODA, Alcohol and Other Drug Abuse
Boat – Patrol Operators
Boat – Patrol Operators Master
Community Corrections
Criminal Justice Law Enforcement – Advanced Standing
Jail and Juvenile Detention
Paralegal Post-Baccalaureate

MANUFACTURING
Certificates
Applied Graphics for Prototype and Design
Biomedical/Electronics
Industrial Maintenance
Industrial Safety
Parametric Modeling
Plant Engineer Mechanical Maintenance
Power Generator
Weld Inspection

Apprenticeships
Industrial Electrician
Industrial Millwright
Industrial Pipefitter
Electrical/Instrumentation
Machinist
Machinist CNC
Maintenance Technician
Maintenance Mechanic Millwright Pipefitter

MARKETING, SALES AND SERVICE
Certificates
Business Writing
Digital Photography
Digital Photography – Advanced
Promotions and Event Management
Service Writer
Supply Chain Management

TRANSPORTATION, DISTRIBUTION AND LOGISTICS
Certificates
Boat Patrol Operators
Boat Patrol Operators – Master's Certificate
Supply Chain Management

▶ Environmental Engineering – Waste and Water Technology
▶ Farm Business and Production Management
▶ Landscape Horticulture
▶ Solar Energy Technology
▶ Vineyard Management (Viticulture)
▶ Wind Energy Technology
▶ Winemaking (Enology)

▶ **NEW PROGRAM!**
Environmental Engineering–Waste and Water Technology

This associate degree program is designed to meet the need for environmental engineering technicians in Northeast Wisconsin. As a program grad, you're equipped with skills in analyzing, testing, and monitoring air, water, and solid waste to ensure environmental protection and compliance while maintaining community health and safety. Typical careers include environmental engineering technician, water and waste water treatment plant and system operator, water resource specialist, and recycling coordinator.

FIRST SEMESTER
10-506-146 Intro to Environmental Science	3
10-506-147 Environmental Biology	4
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-804-118 Interm Algebra w Apps	4
10-806-134 General Chemistry	4

SECOND SEMESTER
10-506-149 Intro to Environ. Compliance	3
10-506-148 Environmental Chem Analysis	4
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-801-136 English Composition 1	3
10-809-195 Economics	3

THIRD SEMESTER
10-506-150 Environmental Bacteriology	3
10-506-151 Water & Wastewater Oper & Mgmt	4
10-506-152 Ind. Safety & Emerg. Response	3
10-620-121 Mechanics 1: Basic	1
10-620-122 Mechanics 2: Intermediate	1
10-620-123 Mechanics 3: Systems	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-801-197 Technical Reporting	3

FOURTH SEMESTER
10-506-153 Solid and Hazardous Waste	4
10-506-154 Air Pollution Control Systems	3
10-506-155 Water & Wastewater Analysis	4
10-809-172 Race Ethnic & Diversity	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	68

Farm Business and Production Management

As a graduate of the Farm Business and Production Management program, you have the skills needed to compete and be profitable in the ever-changing agricultural economy. You're prepared to own and operate or be employed on today's modern farms. With additional education and/or work experience, you may become a dairy herdsperson, general farm manager, farm records manager, crop supervisor, livestock feeding specialist, farm equipment and facilities maintenance manager, farm service employee, and field equipment operator.
This program is not eligible for financial aid.

FIRST SEMESTER
30-090-387 Farm Record/Business Analysis	4
30-090-388 Crop Management	4
30-090-391 Livestock Management	4
30-090-392 Livestock Nutrition	4
30-090-393 Soil Management	4
30-090-394 Farm Business Operation	4
TOTAL PROGRAM CREDITS	24

Landscape Horticulture Program

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Landscape Horticulture

Professionals are needed to design, install, and maintain exceptional landscapes. As a landscape horticulture technician, you perform pencil sketching of common landscaping ideas, design landscapes, build and install hardscapes and plants, write cost estimates for labor and materials, perform ground maintenance, and safely operate landscape and construction equipment. You also have a working knowledge of the safe use of pesticides. Plus, you can propagate, grow, and sell all types of ornamental plants. Students in the Landscape Horticulture program hone their skills in NWTC's award-winning Landscape Horticulture Learning Center which is located right on the Green Bay Botanical Garden – giving students the unique opportunity for hands-on learning on a 47-acre ornamental lab with display gardens and natural areas. NWTC's Landscape Horticulture program is the only accredited program in the state of Wisconsin that is located on a botanical garden.

FIRST SEMESTER

10-001-110 Horticulture-Intro	3
10-001-158 Plant-Woody Ornamental	3
10-001-159 Flowers-Herbaceous	3
10-606-112 Computer Apps for Technicians	1
10-606-127 Landscape Dsgn Studio Intro	1
10-801-196 Oral/Interpersonal Comm	3
10-809-197 Contemporary Amer Society	3

SECOND SEMESTER

10-001-122 Fundamentals Plant Nutrition	1
10-001-153 Plant and Soil Science	3
10-001-154 Turf Management	3
10-001-180 Landscape Installation Intro	2
10-606-125 Landscape Design Technology	2
10-804-123 Math w Business Apps	3
10-809-199 Psychology Of Human Relations	3

SUMMER SEMESTER

10-001-151 Landscape/Hort Internship	3

THIRD SEMESTER

10-001-109 Landscape Installation-Adv	2
OR	
10-001-108 Plant Propagation	2
10-001-170 Integrated Pest Management	2
10-001-172 Landscape Maintenance	2
10-001-174 Prin of Landscape Design/Graph	3
10-104-191 Customer Service	3
10-801-136 English Composition 1	3
Elective	1

FOURTH SEMESTER

10-001-115 Landscaping-Applied	4
10-001-182 Irrigation	2
OR	
10-001-140 Plant Diagnostic Skills	2
10-001-184 Landscape Design Studio-Adv	3
OR	
10-001-130 Plant Interior	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**68**

Solar Energy Technology

The Solar Energy Technology program provides a skilled workforce of technicians who are able to assess sites, design, install, operate, and maintain solar electric and solar thermal systems for residential and commercial applications. The graduate will also be well suited to provide technical sales support to the growing renewable energy industry. Potential employment possibilities will be with existing electrical and mechanical contractors and helping them with their expanding offerings of solar energy technologies. Other possible areas of employment are with energy consulting firms, design firms and utilities. Typical careers in this field include solar electric energy technician, solar thermal energy technician, solar site assessor, and solar sales representative. With additional education and experience graduates can expand their careers to energy analyst, journeyperson electrician/plumber, project manager, energy engineer, or environmental consultant.

FIRST SEMESTER

10-442-150 Machine Fabrication 1	1
10-480-101 Energy-Intro Renew & Sustain	4
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-804-118 Interm Algebra w Apps	4

SECOND SEMESTER

10-482-120 Photovoltaics-Design & Site	2
10-482-126 Intro to Solar	4
10-620-140 Machine Wiring and Safety	1
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-110 Electronics 1: Diodes-Basic	1
10-664-102 Automation 3: PLC	1
10-804-196 Trigonometry w Apps	3
10-806-143 College Physics 1	3

THIRD SEMESTER

10-482-125 Photovoltaics-Advanced	3
10-483-104 Solar Thermal Design & Site	2
10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-801-136 English Composition 1	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-481-114 Intro to Energy Management	3
10-483-105 Solar Thermal-Advanced	3
10-483-106 Solar Advanced System Design	4
10-801-197 Technical Reporting	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**66**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

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Vineyard Management (Viticulture)

Midwesterners who dream of a career in wine country don't need to migrate to California.

As Wisconsin's grape growing industry expands, business owners are looking for both employees and suppliers right here. As a graduate of the Vineyard Management associate degree, you have the skills necessary to own and operate or be employed at a vineyard as a vineyard manager or vineyard worker. You are skilled in planting, pruning, training, harvesting, gathering, sustainability, integrated pest management, and storing of grapes and other fruits.

FIRST SEMESTER

10-090-111	Organic Ag Intro	2
10-145-189	Writing a Business Plan-Sm Bus	3
10-196-191	Supervision	3
VIN 111	Intro to Viticulture	3
VIN 135	Botanical Viticulture	4

SECOND SEMESTER

10-090-102	Org Soils, Nutrients, Comp	1
VIN 113	Winter Viticulture Technology	2
VIN 114	Spring Viticulture Technology	2
VIN 211	Integrated Pest Management	2
10-804-107	College Mathematics	3
10-806-112	Principles of Sustainability	3
	Elective	2

THIRD SEMESTER

10-145-188	Entrepreneurial Service Mgmt OR	3
10-145-185	Organizing Your Small Business OR	3
10-145-186	Financial Management-Small Bus OR	3
10-145-187	Marketing Your Small Business	3
VIN 115	Summer/Fall Viticulture Tech	2
VIN 213	Regional Vineyard Management	2
10-801-136	English Composition 1	3
10-809-172	Race Ethnic & Diversity	3
10-809-195	Economics	3

FOURTH SEMESTER

10-090-105	Organic Produce	1
10-090-107	Organic Ag and Food Marketing	1
VIN 190	Vineyard Safety	1
VIN 293	Soils for Viticulture	3
10-801-196	Oral/Interpersonal Comm	3
10-809-199	Psychology Of Human Relations	3
	Elective	2
	TOTAL PROGRAM CREDITS	**60**

Wind Energy Technology

The wind energy industry is the fastest growing segment of renewable energy production. The U.S. and Canadian commercial wind farms are experiencing annual growth of 25 percent. Employers seek skilled technicians for operation and maintenance activities in local wind farm settings. There is also intense demand for upper-level technicians within U.S. and international wind turbine manufacturers; these include installation technician, quality control technician, and warranty and commissioning technicians. Operation and maintenance positions remain with a given wind farm location; other technicians travel extensively with the development of new wind farms and repair/retrofitting of wind farms around the world.
A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. This program is eligible for financial aid only through Lakeshore Technical College.
Some courses in this shared program are only offered at LTC, for detailed information, call Toll-free: (888) 385-6982.

FIRST SEMESTER

10-482-130	Energy-Intro to Wind	3
10-620-100	Fluids 1: Basic Pneumatics	1
10-620-101	Fluids 2: Basic Hydraulics	1
10-660-101	Digital 1: Logic	1
10-660-104	DC 1: Introduction	1
10-660-105	DC 2: Circuits	1
10-804-118	Interm Algebra w Apps	4

SECOND SEMESTER

10-620-121	Mechanics 1: Basic	1
10-620-140	Machine Wiring and Safety	1
10-620-165	Fluids 3: Inter Hydraulics	1
10-660-102	Digital 2: Sequential	1
10-660-107	AC 1: Properties	1
10-660-108	AC 2: Reactance	1
10-660-110	Electronics 1: Diodes-Basic	1
10-664-100	Automation 1: Control Logic	1
10-664-101	Automation 2: Motor Control	1
10-664-102	Automation 3: PLC	1
10-801-136	English Composition I	3
10-804-196	Trigonometry w Apps	3

SUMMER SEMESTER

10-413-110	Energy Introduction to	2
10-449-113	Wind Technician Health & Safety	2
10-482-120	Wind Technician 1 Lab	1
10-482-122	Wind Technician II	1
10-482-124	Wind Technician III	1

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

THIRD SEMESTER

10-103-131	Micro: Excel-Intro	1
10-620-122	Mechanics 2: Intermediate	1
10-620-123	Mechanics 3: Systems	1
10-605-158	Power Electronics 2: Drives	1
10-620-161	Power Electricity 1: Motors	1
10-664-103	Automation 4: PLC	1
10-664-104	Automation 5: PLC	1
10-664-160	Control 1: Discrete Systems	1
10-664-161	Control 2: Process Systems	1
10-664-162	Control 3: Motion Systems	1
10-806-143	College Physics I	3

FOURTH SEMESTER

10-664-105	Automation 6: PLC	1
10-664-151	Automation 8: HMI	1
10-664-163	Control 4: Drive Performance	1
10-664-164	Control 5: Servo Systems	1
10-664-165	Control 6: Servo Systems	1
10-801-197	Technical Reporting	3
10-809-172	Race Ethnic & Diversity	3
10-809-198	Intro to Psychology	3

SUMMER SEMESTER

10-482-126	Wind Technician IV	3
10-482-128	Wind Technician V	2
10-482-130	Wind Site Assessment	1
10-482-132	Wind (Small) Turbine Maint	1
	TOTAL PROGRAM CREDITS	69

Why it's SMART TO CHOOSE NWTC

FACT: Out of 5,000 U.S. colleges, NWTC is among the top 1% for associate degrees in Precision Production; Communication Technologies and Related Services; and Agriculture, Agriculture Operations and Related Sciences.

(Source: U.S. Dept. of Education data reported in Community College Week, June 13, 2011.)

Winemaking (Enology)

Careers in the wine industry exist right here in Northeast Wisconsin. As a graduate of the Winemaking program, you're prepared for a career as a winemaker, winemaking assistant, cellar worker, or tasting room host. You're skilled in fermentation, clarification, and aging of juice and wine, lab methodologies, sanitization, quality control, winery equipment operation, grape maturity testing, and wine and must analysis. The Winemaking program offers students an internship at a local winery, offering an intense level of practical and realistic winery experiences.

FIRST SEMESTER

10-145-189	Writing a Business Plan-Sm Bus	3
VIN 146	Introduction to Enology	3
10-801-198	Speech	3
10-804-118	Interm Algebra w Apps	4
10-806-134	General Chemistry	4

SECOND SEMESTER

VIN 148	Winery Sanitation	3
VIN 160	Winery Equipment Operation	2
VIN 246	Intermediate Enology	3
VIN 290	Winery Safety	2
10-801-136	English Composition I	3

THIRD SEMESTER

10-065-141	Microbiology-Wine	4
10-145-188	Entrepreneurial Service Mgmt	3
	OR	
10-145-185	Organizing Your Small Business	3
	OR	
10-145-186	Financial Management-Small Bus	3
	OR	
10-145-187	Marketing Your Small Business	3
VIN 257	Fall Wine Prod Internship	3
VIN 268	Wine and Must Analysis	3
10-809-199	Psychology Of Human Relations	3

FOURTH SEMESTER

VIN 259	Cellar Operations Technology	2
VIN 266	Sensory Evaluation	3
10-809-172	Race Ethnic & Diversity	3
10-809-195	Economics	3
10-999-923	Elective	3
	TOTAL PROGRAM CREDITS	60

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

ARCHITECTURE AND CONSTRUCTION

▶ Architectural Technology
▶ Civil Engineering Technology
▶ Electrical Power Distribution
▶ Electricity
▶ Energy Management Technology
▶ Gas Utility Construction and Service
▶ Heating, Ventilation, Air Conditioning and Refrigeration Technology
▶ Power Engineer and Boiler Operator
▶ Prototype and Design
▶ Solar Energy Technology
▶ Wood Tech

Architectural Technology

Careers in architectural technology allow you to pursue your passion for designing, drawing, creating, and problem solving. Architectural technicians prepare drawings and other construction documentation for residential, commercial, and industrial buildings. As an Architectural Technology program graduate, you'll be prepared to work in many fields related to architecture and construction. These careers include building materials sales person, building systems design technician, shop drawing draftsperson, structural draftsperson, and residential designer or estimator. With additional education and/or work experience, you may become an architect, building inspector, senior draftsperson, commercial or industrial estimator, structural engineer, specification writer, or project manager.

FIRST SEMESTER
10-614-210 Arch Principles	4
10-614-211 Arch Revit Intro	1
10-614-213 Bldg Materials	2
10-614-214 Bldg Green Intro	1
10-614-222 Arch CAD Intro	2
10-801-136 English Composition 1	3
10-804-118 Interm Algebra w Apps	4

SECOND SEMESTER
10-614-231 Arch Revit Advanced	2
10-614-232 Struct Residential	2
10-614-240 Arch Residential	5
10-804-196 Trigonometry w Apps	3
10-809-198 Intro to Psychology	3

THIRD SEMESTER
10-614-250 Arch Comm Studio I	4
10-614-252 Struct Analysis I	2
10-614-253 Struct Commercial	3
10-801-197 Technical Reporting	3
10-804-195 College Algebra w Apps	3

FOURTH SEMESTER
10-614-251 Bldg Estimating	2
10-614-271 Struct Analysis II	3
10-614-272 Bldg MEP Systems	3
10-614-280 Arch Comm Studio II	5
10-809-172 Race Ethnic & Diversity	3
Elective	2
TOTAL PROGRAM CREDITS	**65**

Civil Engineering Technology

Civil Engineering Technology graduates are prepared for careers in the engineering and surveying fields. As a civil engineering technician, you examine and interpret prints and specifications; confer with contractors and owners to enforce contract specifications, building codes, and zoning ordinances; test soils, asphalt, and concrete; perform land surveying and computer aided drafting; and observe building, highway, and utility construction. With additional education and/or work experience, you can become a civil engineer, construction superintendent, building inspector, civil designer, construction projects manager, or registered surveyor.

FIRST SEMESTER
10-606-112 Computer Apps for Technicians	1
10-606-113 CAD	2
10-607-119 Intro to Civil Engr Technology	2
10-607-121 Surveying/Mapping	3
10-607-128 Soil Mechanics	3
10-801-196 Oral/Interpersonal Comm	3
10-804-196 Trigonometry w Apps	3

SECOND SEMESTER
10-607-102 Land Surveying/Computer Appl	1
10-607-110 Cemented Aggregate Mixtures	4
10-607-125 Civil Public Works Construct	2
10-801-136 English Composition I	3
10-804-195 College Algebra w Apps	3
10-806-154 General Physics 1	4

SUMMER SEMESTER
10-607-191 Civil Engineering Internship	1

THIRD SEMESTER
10-607-131 Surveying 2	4
10-607-134 Surveying-Drafting	3
10-607-135 Statics/Strength Matl-Civil	4
10-804-198 Calculus 1	4
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER
10-607-147 Water Technology	3
10-607-151 Highway Surveying	2
10-607-152 Construction Meth/Bldg Syst	2
10-607-153 Global Positioning Systems	2
10-607-154 Land Law I	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**68**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Electrical Power Distribution

Qualified line technicians are needed to install, maintain, and operate the complex network of power lines and cables that supply electric energy to residential, commercial, and industrial customers. NWTC's nine month Electrical Power Distribution technical diploma prepares grads for the following career opportunities: groundman, line apprentice/technician/mechanic, cable TV line technician, telephone line technician, technician in an electricity generating plant, substation electrician or installer/maintainer of underground systems.

FIRST SEMESTER

10-804-101 Math 1-Trades	2
31-413-330 Line Elec Field Trng 1	5
31-413-353 Electricity-Basic	1
31-413-362 Line Elec-Safety 1	1

SECOND SEMESTER

10-103-121 Micro: Word-Intro	1
31-413-335 Line Elec-Const Standards	1
31-413-336 Line Elec Field Trng 2-A	5
31-413-337 Line Elec Field Trng 2-B	5
31-413-355 Electricity-Linepersons	2
31-413-364 Line Elec-Safety 2	1
31-801-385 Communicating-Writing	1

THIRD SEMESTER

10-103-131 Micro: Excel-Intro	1
31-413-332 Line Elec Field Trng 3	5
31-413-361 Lineman-Safety/First Aid	1
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**33**

Electricity

As a graduate of the one-year Electricity program, you're ready to work in residential, commercial, and industrial setting. You're skilled in installing, maintaining, and servicing basic electrical equipment. Typical career opportunities include construction electrician and industrial maintenance technician. With additional education and/or work experience, you may also become an electrical construction supervisor, electrical engineering technician, journey-level electrician, electrical contractor, electrical maintenance supervisor, and voice data video installer.

FIRST SEMESTER

31-413-314 DC Circuits	2
31-413-316 Residential Elec Code 1	1
31-413-317 Fundamentals of Electricity	2
31-413-319 Residential Wiring 1	3
31-413-326 Residential Elec Code 2	1
31-413-329 Residential Wiring 2	3
31-449-301 Electrical Safety	1
31-804-312 Math-Algebra/Trades	1

SECOND SEMESTER

31-413-303 Industrial Controls	2
31-413-304 Electric Motor Control	2
31-413-327 Commercial Wiring Techniques	2
31-413-328 Motors/Transformers	2
31-413-334 AC Circuits	2
31-413-345 Industrial Code	1
31-413-346 Commercial Elec Code	1
31-801-385 Communicating-Writing	1
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**28**

Energy Management Technology

Graduates of the Energy Management Technology associate degree are equipped for careers in the energy industry with such diverse employers as engineering firms; utility companies; energy equipment companies; heating, ventilating, air conditioning and refrigeration contractors; and government agencies. Typical careers include energy auditor, energy management consultant, energy program coordinator, and control system specialist. With additional education and/or work experience, you may become a facility manager, certified energy manager, building manager, energy engineer, and environmental consultant.

FIRST SEMESTER

10-480-101 Energy-Intro Renew & Sustain	4
10-481-114 Intro to Energy Management	3
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-660-106 DC 3: Circuit Theorems	1
10-804-118 Interm Algebra w Apps	4
10-806-143 College Physics 1	3

SECOND SEMESTER

10-103-131 Micro: Excel-Intro	1
10-196-188 Project Management	1
10-481-106 Intro to Water Resources	2
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-109 AC 3: RLC Circuits	1
10-660-110 Electronics 1: Diodes-Basic	1
10-664-102 Automation 3: PLC	1
10-801-136 English Composition 1	3
10-804-196 Trigonometry w Apps	3

THIRD SEMESTER

10-481-109 Commercial HVACR Analysis	3
10-481-111 Energy Control Strategies	3
10-481-115 Lighting Fundamentals	3
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-481-107 Building Energy Simulation	3
10-481-108 Commercial Energy Analysis	3
10-481-110 Energy Accounting	2
10-481-113 Energy Investment Analysis	3
10-801-197 Technical Reporting	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**67**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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Gas Utility Construction and Service

Highly skilled professionals in the utilities industry are needed to install, maintain, and operate natural and propane gas distribution systems used to supply residential, commercial, and industrial customers. Typical careers in this field include gas distribution worker, gas service person, gas meter and regulation mechanic, gas clerk-estimator, gas inspector, gas appliance repair mechanic, underground facilities locator, pipe layer, PE pipe fusion, and equipment operator.

FIRST SEMESTER

10-804-101 Math 1-Trades	2
31-442-315 Welding-Gas Service 1	2
31-469-310 Gas Utility Field Trng 1	4

SECOND SEMESTER

31-413-348 Electricity-Basic	2
31-422-310 Metallurgy	2
31-442-325 Welding-Gas Service 2	2
31-469-320 Gas Utility Field Trng 2	5
31-469-330 Gas Utility Field Trng 3	5
31-801-385 Communicating-Writing	1

THIRD SEMESTER

31-413-358 Electricity-Gas Applianc	2
31-469-340 Gas Utility Field Trng 4	4
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**32**

Heating, Ventilation, Air Conditioning and Refrigeration Technology

As a heating, ventilation, air conditioning, and refrigeration (HVAC/R) technician, you work with the control of air. You may install, service, troubleshoot, and repair HVAC/R systems in many different settings – in a home, office building, restaurant, or manufacturing plant – just to name a few. Typical careers in this field include mechanical contractor HVAC/R technician, facilities maintenance HVAC/R technician, wholesale service representative, commercial HVAC/R systems technician, industrial HVAC/R systems technicians, and residential HVAC/R systems technician.

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
OR	
10-103-121 Micro: Word-Intro	1
OR	
10-103-122 Micro: Word-Part 2	1
OR	
10-103-131 Micro: Excel-Intro	1
OR	
10-103-132 Micro: Excel-Part 2	1
OR	
10-103-141 Micro: Access-Intro	1
OR	
10-103-142 Micro: Access-Part 2	1
OR	
10-103-151 Micro: PowerPoint-Intro	1
OR	
10-103-160 Micro: Outlook	1

10-601-111 HVAC/R Electrical Fundamentals	3
10-601-116 HVAC/R Mech Service Fund & Saf	3
10-601-133 HVAC/R Refrigeration Fund	3
10-804-107 College Mathematics	3
10-809-199 Psychology Of Human Relations	3

SECOND SEMESTER

10-601-113 HVAC/R Refrig/Air Cond Syst	3
10-601-121 HVAC/R Heating Fundamentals	3
10-601-127 HVAC/R Control Circuits	3
10-601-128 HVAC/R Heating Systems	3
10-601-137 HVAC Mechanical Service Appl	2
10-601-138 HVAC Sheet Metal for HVAC Tech	1
10-801-136 English Composition 1	3

THIRD SEMESTER

10-601-131 HVAC/R Heating System Applic	3
10-601-132 HVAC/R Air Conditioning Applic	3
10-601-147 HVAC/R Motor Control Appl	3
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
10-809-197 Contemporary Amer Society	3

FOURTH SEMESTER

10-601-135 HVAC/R Hydronic System Applic	3
10-601-139 HVAC/R Building Plans and Spec	1
10-601-141 HVAC/R Systems Service	3
10-601-143 HVAC/R Refrigeration Appl	3
10-601-145 HVAC/R Control System Applic	3
10-801-196 Oral/Interpersonal Comm	3
TOTAL PROGRAM CREDITS	**68**

Power Engineer and Boiler Operator

As a Power Engineer and Boiler Operator program graduate, you're equipped with the necessary skills to manage, operate, and control boilers and steam auxiliary systems in factories, hospitals, schools and commercial buildings. Typical careers in this field include power engineer/boiler operator, boiler service technician and boiler chemical sales representative.

This program is not eligible for financial aid.

FIRST SEMESTER

10-196-191 Supervision	3
10-804-101 Math 1-Trades	2
30-403-338 Power House-Blueprint Rdg	1
30-413-345 Power House-Control Sys	1
30-413-347 Power House-Electric Sys	2
30-428-334 Power Engineering II	3
30-428-337 Power House-Economics	1
30-428-344 Power Engineering I	3
TOTAL PROGRAM CREDITS	**16**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Prototype and Design

Highly-skilled professionals are needed in the design and engineering industry to build a variety of three-dimensional prototypes and models for use in manufacturing automobiles, toys, and other products. These professionals may also build three-dimensional models used for architecture design, mechanical design, litigation, props, special effects, and the entertainment industry. Graduates of the Prototype and Design program are skilled in model making, welding, CNC machining, industrial design, problem solving, and critical thinking. Career opportunities include product development, prototype model builder, engineering design, architectural model builder, legal model builder, props and special effects model builder, and pattern and mold maker.

FIRST SEMESTER

10-420-151 Prototype Machine Tool	3
10-606-113 CAD	2
10-614-113 2D Essentials	2
10-614-152 Prototyping-Introduction to	5
10-801-196 Oral/Interpersonal Comm	3
10-804-107 College Mathematics	3

SECOND SEMESTER

10-442-153 Prototype Metal Fabrication	2
10-606-162 Solidworks Fundamentals	1
10-606-163 Solidworks-Intermediate	1
10-606-166 SolidWorks Loft/Surface	1
10-614-122 Prototype Design	3
10-614-124 Design Visualization	5
10-804-118 Interm Algebra w Apps	4

THIRD SEMESTER

10-614-134 Engineering Models	5
10-614-138 CNC Machining-Adv	3
10-614-176 Model Finishing	3
10-801-136 English Composition I	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-614-143 Prototyping Solutions Advanced	5
OR	
10-614-139 Prototype & Design Internship	5
10-614-154 Current Prototyping Processes	3
10-614-174 Models-Machine	2
10-809-166 Intro to Ethics: Theory & App	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**68**

Solar Energy Technology

The Solar Energy Technology program provides a skilled workforce of technicians who are able to assess sites, design, install, operate, and maintain solar electric and solar thermal systems for residential and commercial applications. The graduate will also be well suited to provide technical sales support to the growing renewable energy industry. Potential employment possibilities will be with existing electrical and mechanical contractors and helping them with their expanding offerings of solar energy technologies. Other possible areas of employment are with energy consulting firms, design firms and utilities. Typical careers in this field include solar electric energy technician, solar thermal energy technician, solar site assessor, and solar sales representative. With additional education and experience graduates can expand their careers to energy analyst, journeyperson electrician/plumber, project manager, energy engineer, or environmental consultant.

FIRST SEMESTER

10-442-150 Machine Fabrication 1	1
10-480-101 Energy-Intro Renew & Sustain	4
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-804-118 Interm Algebra w Apps	4

SECOND SEMESTER

10-482-120 Photovoltaics-Design & Site	2
10-482-126 Intro to Solar	4
10-620-140 Machine Wiring and Safety	1
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-110 Electronics 1: Diodes-Basic	1
10-664-102 Automation 3: PLC	1
10-804-196 Trigonometry w Apps	3
10-806-143 College Physics 1	3

THIRD SEMESTER

10-482-125 Photovoltaics-Advanced	3
10-483-104 Solar Thermal Design & Site	2
10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-801-136 English Composition 1	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-481-114 Intro to Energy Management	3
10-483-105 Solar Thermal-Advanced	3
10-483-106 Solar Advanced System Design	4
10-801-197 Technical Reporting	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**66**

Wood Tech

As a Wood Tech graduate, you're prepared to enter the building construction trades as carpenters and cabinetmakers. You're skilled in building cabinets and capable in layout, framing, fabrication, assembly and finish preparation. You can also apply laminated plastic and install drawers and door hardware. Other career opportunities include carpenter/general builder, carpenter/millworker, and carpenter/rough framer.

FIRST SEMESTER

10-804-101 Math 1-Trades	2
31-403-360 Blueprint Rdg-Cabinetry	2
31-409-310 Commercial Cabinet Finishes	1
31-409-321 Wood Techniques-Cabinetry 1	5
31-409-322 Wood Techniques-Cabinetry 2	5

SECOND SEMESTER

31-403-350 Blueprint Rdg-Construction	2
31-410-301 Wood Tech-Bldg Matl Est	2
31-410-311 Wood Techniques-Carpentry 1	5
31-410-312 Wood Techniques-Carpentry 2	5
31-801-385 Communicating-Writing	1
31-801-386 Communicating Effectively	1
31-806-354 Science-Wood Tech	2
TOTAL PROGRAM CREDITS	**33**

ARTS, AUDIOVISUAL TECHNOLOGY AND COMMUNICATIONS

▶ Broadcast Captioning
▶ Design and Graphic Technology
▶ Digital Media Technology
▶ Photography
▶ Print Technology
▶ Web Development

Broadcast Captioning

You've read the scrolling captions for the hearing-impaired on your TV screen. The person providing instantaneous text of programs is trained in realtime transcription techniques and technology. These skills can also be used to provide Communication Access to Realtime Translation for hearing-impaired students in educational as well as public settings. If you're an excellent listener, have strong language and communication skills, are committed to accuracy and able to work on deadline, a career in broadcast captioning may be a perfect fit for your talents.

A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Lakeshore Technical College.

FIRST SEMESTER

10-106-104 Realtime Reporting 1	5
10-106-144 Realtime Reporting Orientation	1
10-106-159 Legal Terminology	1
10-106-184 English for Realtime Reporters	1
10-106-804 Realtime Reporting I Lab	1
10-801-136 English Composition 1	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-106-105 Realtime Reporting II	5
10-106-158 Realtime Reporting Technology	2
10-106-805 Realtime Reporting II Lab	1
10-801-196 Oral/Interpersonal Comm	3
OR	
10-801-198 Speech	3
10-809-172 Race Ethnic & Diversity	3
OR	
10-809-122 Intro to Amer Government	3
10-809-196 Intro to Sociology	3

SUMMER SEMESTER

Realtime Reporting Speed Dev	2

Wood Tech

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Left Column

THIRD SEMESTER

10-106-109 Literary I	2
10-106-128 Jury Charge I	2
10-106-156 Testimony I	3
10-106-809 Literary I Lab	1
10-106-828 Jury Charge I Lab	1
10-106-859 Testimony I Lab	1
10-804-123 Math w Business Apps	3
OR	
10-804-107 College Mathematics	3
OR	
10-806-112 Principles of Sustainability	3
10-809-195 Economics	3

FOURTH SEMESTER

10-106-111 Literary II	2
10-106-129 Jury Charge II	2
10-106-142 Judicial Reporting Procedures	2
10-106-143 Judicial Reporting Internship	1
10-106-157 Testimony II	3
10-106-171 Medical Reporting/Terminology	2
10-106-811 Literary II Lab	1
10-106-829 Jury Charge II Lab	1
10-106-857 Testimony II Lab	1

SUMMER SEMESTER

10-170-101 Captioning/CART	4
10-170-143 Internship: Broadcast Cap/CART	1
TOTAL PROGRAM CREDITS	**70**

BEGINNING COURSES REQUIRED PRIOR TO ADVANCED COURSES:
10-106-121, Jury Charge 1 - Beginner
10-106-122, Jury Charge 2 - Beginner
10-106-113, Literary 1 - Beginner
10-106-114, Literary 2 - Beginner
10-106-153, Testimony 1 - Beginner
10-106-154, Testimony 2 - Beginner

Design and Graphic Technology

Creative professionals are needed in the business world to produce and print publications, develop advertising concepts, and build graphic elements for websites. As a graduate of the Design and Graphic Technology program, you are ready for a wide variety of careers including desktop publisher, graphic designer, advertising assistant, commercial art worker, digital print technician, layout designer, printing support worker/customer service representative, public relations assistant, pre-press technician, and website designer.

FIRST SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-103 Macintosh-Intro	1
10-111-120 Macintosh Publishing	3
10-111-161 Macintosh Illustration	3
10-204-110 Publishing Technologies	3
10-809-103 Think Critically & Creatively	3

SECOND SEMESTER

10-111-110 Macintosh Image Editing-Adv	3
10-111-111 Visual Design 1	3
10-111-125 Graphic Reproduction Tech	3
10-111-165 Typography	3
10-152-185 Website Coding	3
10-804-123 Math w Business Apps	3

Right Column

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-104-107 Marketing Comm-Integrated	3
10-111-121 Visual Design 2	3
10-801-136 English Composition 1	3
10-801-196 Oral/Interpersonal Comm	3
10-809-199 Psychology Of Human Relations	3
Elective	3

FOURTH SEMESTER

10-111-143 Graphic Reproduction-Adv	3
10-111-199 Des/Graphic Intern Practicum	2
10-204-126 Digital Print Applications	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
Elective	3
TOTAL PROGRAM CREDITS	**70**

Digital Media Technology

The evolving digital media technology field employs professionals with a wide range of multimedia production skills including digital audio and video recording and editing; motion graphics; internet broadcasting (podcasting); and transfer, conversion and encoding of digital media. Graduates of the Digital Media Technology program are prepared to compete in a global digital workforce with high tech skills in content conception, creation, and implementation. Typical careers include digital media operator, motion graphic artist, video editor, multimedia production assistant, and freelance digital media producer.

FIRST SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-103 Macintosh-Intro	1
10-206-100 Digital Audio Overview	3
10-206-107 Internet Broadcasting	3
10-206-178 Film/Broadcast Scriptwriting	3
10-801-136 English Composition 1	3

SECOND SEMESTER

10-206-120 Music Production-Logic Studio	3
10-206-154 Macintosh Video Editing	3
10-206-180 Film/Broadcast Preproduction	3
10-206-183 Video Photography	3
10-804-123 Math w Business Apps	3
10-801-196 Oral/Interpersonal Comm	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-206-101 Soundtracks and Music	3
10-206-108 Internet Broadcasting-Advanced	3
10-206-125 DVD Authoring	3
10-809-103 Think Critically & Creatively	3
10-809-199 Psychology Of Human Relations	3

FOURTH SEMESTER

10-206-174 Motion Graphics for Video	3
10-206-185 Macintosh Video Editing-Adv	3
10-206-199 Dig Media Internship Practicum	2
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
Elective	3
TOTAL PROGRAM CREDITS	**67**

Photography

As a Photography program graduate, you are equipped for careers in event photography, fine art photography, and photojournalism. You have learned not only the latest in digital technologies, but you have the business skills necessary to succeed. Typical careers include portrait photographer, wedding photographer, photojournalist, nature photographer, sports photographer, event photographer, commercial photographer, digital imaging specialist, film production crew, and freelance photographer.

FIRST SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-103 Macintosh-Intro	1
10-203-104 Photography-Digital	3
10-206-183 Video Photography	3
10-804-123 Math w Business Apps	3
31-801-386 Communicating Effectively	1

SECOND SEMESTER

10-203-120 Photography-Landscape/Nature	1
10-203-122 Photography-Sports/Events	1
10-203-125 Photography-Night/Low Light	1
10-203-178 Photography-Digital Advanced	3
10-203-180 Photography-Digital Workflow	3
10-203-187 Photography-Digital Editing	3

THIRD SEMESTER

10-145-186 Financial Management-Small Bus	3
10-145-189 Writing a Business Plan-Sm Bus	3
10-203-121 Photography-Portrait	1
10-203-123 Photography-Commercial	1
10-203-124 Photography-Wedding	1
10-203-189 Photography-Digital Editing Ad	3
TOTAL PROGRAM CREDITS	

Print Technology

As a Print Technology program graduate, you are skilled in pre-press operations, wide format inkjet applications, computer-to-plate-imaging, finishing processes, electronic publishing, and digital print applications. Typical careers in the printing industry include digital output operator, offset/press operator, offset/press assistant, large format output operator, and bindery/finishing operator.

FIRST SEMESTER

10-111-103 Macintosh-Intro	1
10-111-161 Macintosh Illustration	3
10-204-110 Publishing Technologies	3
10-204-111 Digital Publishing Operations	3
10-204-124 Variable Data Publishing	3
10-801-136 English Composition 1	3

SECOND SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-125 Graphic Reproduction Tech	3
10-204-126 Digital Print Applications	3
10-204-128 Digital Fulfillment/Mailing	3
10-804-123 Math w Business Apps	3
TOTAL PROGRAM CREDITS	**31**

Web Development

Web developers design, implement, and maintain internet and internet web applications/sites. As a graduate of the Web Development associate degree, you're prepared for such careers as web developer, web technical support specialist, and web analyst. You play a key role in internet-based business systems and websites using concepts in design and programming.

FIRST SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-103 Macintosh-Intro	1
10-150-144 IT:Network:Operating Sys Fund	3
10-152-185 Website Coding	3
10-154-125 IT:Web:Database Development	3
10-804-133 Math & Logic	3

SECOND SEMESTER

10-135-150 Web Graphic Design	3
10-135-152 Web Animation Design	3
10-152-184 IT:Web:Programming-SQL	3
10-801-136 English Composition 1	3
10-801-196 Oral/Interpersonal Comm	3
10-809-199 Psychology Of Human Relations	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-135-115 Online Search Strategies	3
10-135-151 Website Design	3
10-152-180 IT:Web:Scripting-Javascript	3
10-152-182 IT:Web:Scripting-PHP	3
10-809-103 Think Critically & Creatively	3

FOURTH SEMESTER

10-135-180 Web Campaign Management	3
10-135-185 Web Emerging Technologies	2
10-135-199 Web Dev Internship Practicum	2
OR	
10-135-197 Web Dev Field Research	2
10-152-183 IT:Web:Scripting-ASP.Net	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**66**

Why it's SMART TO CHOOSE NWTC

FACT: NWTC offers programs in most of the fastest-growing occupations in the United States.

(Source: U.S. Bureau of Labor Statistics Fastest Growing Occupations)

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

BUSINESS, MANAGEMENT AND ADMINISTRATION

▶ Administrative Professional
▶ Business Management
▶ Health Care Business Services
▶ Hotel and Restaurant Management
▶ Leadership Development
▶ Office Professional
▶ Supply Chain Management

Administrative Professional

Administrative professional is one of the fastest-growing occupations in the United States, according to federal experts. The U.S. Department of Labor expects employers to add more than 204,000 new positions by 2018, providing more job openings than in nearly any other career. As an administrative professional, you'll play an integral role in any office environment – scheduling appointments; communicating effectively in person, on the phone, and in writing; preparing agendas; taking meeting minutes; arranging itineraries; scheduling travel plans; processing mail; and using word processing, spreadsheets, presentation graphics, electronic calendaring, desktop publishing, web creation and database software. As a graduate of the Administrative Professional program, potential careers also include customer service representative, front desk coordinator, office manager, project coordinator, and virtual assistant.

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
10-103-121 Micro: Word-Intro	1
10-103-122 Micro: Word-Part 2	1
10-103-151 Micro: PowerPoint-Intro	1
10-106-103 Info Process Principles	3
10-106-107 Keyboard-Speed Building 1	1
10-106-112 Keyboard-Speed Building 2	1
10-106-131 Proofreading/Editing Essen 1	3
10-106-153 Professional Profile	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-103-131 Micro: Excel-Intro	1
10-103-141 Micro: Access-Intro	1
10-106-126 Admin Business Procedures 1	2
10-106-132 Proofreading/Editing Essen 2	2
10-106-142 Software Projects	3
10-106-152 Records Management	2
10-106-172 Telephone/Messaging Skills	1
10-801-136 English Composition 1	3

THIRD SEMESTER

10-103-132 Micro: Excel-Part 2	1
10-103-142 Micro: Access-Part 2	1
10-103-163 Micro: Expression Web	1
10-103-165 Micro: Publication Software	1
10-106-125 Skills for Admin Leadership	3
10-106-136 Admin Business Procedures 2	3
10-809-197 Contemporary Amer Society	3
10-809-199 Psychology Of Human Relations	3
Elective	3

FOURTH SEMESTER

10-101-103 Accounting Principles-Applied	2
10-102-100 Bus and Info Tech Occup Prep	1
10-106-137 Integrated Software Applic	2
10-106-199 Admin Prof Intern Practicum	2
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**68**

Business Management

This program allows you to select an emphasis in business management, entrepreneurship, hotel and restaurant management, global business, supply chain management or credit and finance. General business managers are found in nearly all work settings in virtually every sector of the economy. As a graduate of the Business Management program, students are equipped with the foundational skills needed to manage the operations of a business. Graduates are competent in the business functions of planning, organizing, directing, and controlling with the core skills that are vital for success in the business world.

FIRST SEMESTER

10-101-190 Accounting-QuickBooks	1
10-102-156 Operations & Service Mgmt	3
10-102-158 Business-Introduction	3
10-103-121 Micro: Word-Intro	1
10-103-131 Micro: Excel-Intro	1
One course from your DECLARED sub-plan	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-101-106 Accounting-for Non-Accountants	3
10-102-160 Global Business Mgmt	3
10-196-191 Supervision	3
One course from your DECLARED sub-plan	3
10-801-136 English Composition 1	3
10-809-195 Economics	3

THIRD SEMESTER

One course from your DECLARED sub-plan	3
One course from your DECLARED sub-plan	3
10-102-100 Bus and Info Tech Occup Prep	1
10-102-157 Operations Decision Making	3
10-104-110 Marketing Principles	3
10-801-196 Oral/Interpersonal Comm	3

Business Management

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Business Management *continued ...*

FOURTH SEMESTER

10-102-150 Business Law & Ethics	3
10-102-199 Bus Mgmt Internship Practicum	2
OR	
10-102-197 Bus Mgmt Field Research	2
One course from your DECLARED sub-plan	
10-809-103 Think Critically & Creatively	3
10-809-172 Race Ethnic & Diversity	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	66

It is recommeded courses in a sub-plan be taken in the order listed.
SUB-PLANS:

BUSINESS MANAGEMENT
10-196-189 Team Building/Prob Solve
10-196-193 Human Resource Mgmt
10-182-110 Lean Operations Mgmt
10-101-184 Business Finance/Budgeting
10-104-191 Customer Service

ENTREPRENEURSHIP
10-145-185 Organizing Your Small Business
10-145-186 Financial Management-Small Business
10-145-187 Marketing Your Small Business
10-145-188 Entrepreneurial Service Management
10-145-189 Writing a Business Plan-Small Business

HOTEL & RESTAURANT MANAGEMENT
10-109-114 Hotel Management
10-109-127 Hospitality Facilities Management
10-109-126 Hospitality Finance
10-109-168 Restaurant Management
10-104-125 Event Marketing

GLOBAL BUSINESS
10-102-104 International Business Practice
10-104-148 Global Marketing
10-138-180 Global Trade Finance
10-182-160 Global Supply Chain Mgmt
10-102-184 Global Business Cultures

SUPPLY CHAIN MANAGEMENT
10-182-157 Logistics/Supply Chain Mgmt
10-182-127 Purchasing
10-182-190 Transportation Mgmt
10-182-131 Negotiations
10-182-120 Enterprise Resource Plan/Cont

CREDIT & FINANCE
10-114-151 Finance-Banking Principles
10-114-153 Finance-Personal
10-114-166 Credit-Collection Methods
10-114-109 Credit-Policies/Procedures
10-114-170 Credit-Law

Health Care Business Services

As a Health Care Business Services program graduate, you're ready for a career in the business office of medical and dental clinics, hospitals, nursing homes, related health care facilities, and health insurance settings in administrative, financial, and customer services roles. Typical careers include admitting representative, appointment scheduler, claims analyst, insurance billing specialist, medical records associate, patient services representative, patient accounts associate, provider relations associate, financial counselor, and medical and insurance customer service representative.

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
10-103-121 Micro: Word-Intro	1
10-501-101 Medical Terminology	3
10-530-172 Healthcare Delivery Systems	2
10-530-176 Health Data Management	2
10-530-181 Intro to the Health Record	1
10-801-136 English Composition 1	3
10-806-189 Basic Anatomy	3

SECOND SEMESTER

10-103-131 Micro: Excel-Intro	1
10-103-151 Micro: PowerPoint-Intro	1
10-160-161 Insurance Health Principles	3
10-530-155 Diagnostic/Procedure Coding	3
10-530-178 Healthcare Law & Ethics	2
10-801-196 Oral/Interpersonal Comm	3
10-804-123 Math w Business Apps	3

THIRD SEMESTER

10-101-106 Accounting-for Non-Accountants	3
10-103-141 Micro: Access-Intro	1
10-104-191 Customer Service	3
10-160-143 Medical Practice Proc	3
10-160-151 Healthcare Relations	2
10-501-102 Intro to Dental Terminology	1
10-809-198 Intro to Psychology	3

FOURTH SEMESTER

10-160-140 HCBS Internship	3
10-160-165 HCBS Organizational Resources	2
10-160-166 Medical Billing Processes	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
10-809-196 Intro to Sociology	3
TOTAL PROGRAM CREDITS	65

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Hotel and Restaurant Management

Graduates of the Hotel and Restaurant Management associate degree program are prepared for mid-management careers in hotel management, food service operations and tourism. Career opportunities include front office manager, event service manager, food service manager, executive housekeeper, revenue enhancement manager, building superintendent and sales manager. Many graduates secure employment in hotels, motels, restaurants, food services departments, golf/country clubs, ski resorts, private/industrial catering firms, assisted living centers, universities, and cruise ships.

FIRST SEMESTER

10-102-158 Business-Introduction	3
10-103-121 Micro: Word-Intro	1
10-101-190 Accounting-QuickBooks	1
10-103-131 Micro: Excel-Intro	1
10-109-114 Hotel Management	3
10-801-136 English Composition I	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-104-101 Selling Principles	3
10-104-191 Customer Service	3
10-109-126 Hospitality Finance	3
10-801-198 Speech	3
10-809-195 Economics	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-102-160 Global Business Mgmt	3
10-104-110 Marketing Principles	3
10-104-119 Social Media Marketing	3
10-109-127 Hospitality Facilities Mgmt	3
10-145-177 Entrepreneurship	3
OR	
10-196-145 Workplace Innovation	3
10-809-103 Think Critically & Creatively	3

FOURTH SEMESTER

10-102-150 Business Law & Ethics	3
10-104-125 Event Marketing	3
10-109-168 Restaurant Management	3
10-109-199 Hosp Tour Intern Practicum	2
OR	
10-109-197 Hosp Tour Field Research	2
10-809-172 Race Ethnic & Diversity	3
10-809-199 Psychology Of Human Relations	3
TOTAL PROGRAM CREDITS	66

Hotel and Restaurant Management

Leadership Development

Leaders are challenged with many priorities and a wide array of responsibilities including effectively managing a diverse workforce, helping organizations adapt to change, encouraging innovation, displaying a variety of effective leadership skills, demonstrating critical thinking skills, developing teams, and communicating effectively with people at all levels of the company. As a graduate of the Leadership Development associate degree, you are prepared for leadership roles in any organization.

GROUP 1

10-196-164 Supervisors-Personal Skills	3
10-196-189 Team Building/Prob Solve	3
10-196-191 Supervision	3
10-801-136 English Composition I	3
10-801-198 Speech	3
10-804-123 Math w Business Apps	3

GROUP 2

10-101-106 Accounting-for Non-Accountants	3
10-196-134 Legal Issues-Supervisors	3
10-196-193 Human Resource Mgmt	3
10-801-196 Oral/Interpersonal Comm	3
10-809-197 Contemporary Amer Society	3

GROUP 3

10-196-169 Diversity in the Workplace	3
10-196-190 Leadership Development	3
10-196-199 Business Ethics	3
10-809-195 Economics	3
10-809-199 Psychology Of Human Relations	3
OR	
10-809-198 Intro to Psychology	3
10-196-188 Project Mgmt Fundamentals	3

GROUP 4

10-101-184 Business Finance/Budgeting	3
10-196-145 Workplace Innovation	3
10-196-192 Managing-Quality	3
10-196-136 Safety-Workplace	3
*10-196-196 Leadership Capstone	3
TOTAL PROGRAM CREDITS	66

Office Professional

Office professionals perform a variety of duties related to keyboarding, filing, transcribing, word processing, telephoning, making appointments, recordkeeping, setting up meetings, handling customer relations, entering data, and handling incoming and outgoing mail. As a graduate of this one-year program, you are prepared for entry-level office positions. You may also choose to increase your career opportunities by transferring your credits to the Administrative Professional associate degree program.

FIRST SEMESTER

10-103-111	Micro: Windows-Intro	1
10-103-121	Micro: Word-Intro	1
10-103-122	Micro: Word-Part 2	1
10-103-151	Micro: PowerPoint-Intro	1
10-106-103	Info Process Principles	3
10-106-107	Keyboard-Speed Building 1	1
10-106-112	Keyboard-Speed Building 2	1
10-106-131	Proofreading/Editing Essen 1	3
10-106-153	Professional Profile	3
10-804-123	Math w Business Apps	3

SECOND SEMESTER

10-102-100	Bus and Info Tech Occup Prep	1
10-103-131	Micro: Excel-Intro	1
10-103-141	Micro: Access-Intro	1
10-106-126	Admin Business Procedures 1	2
10-106-132	Proofreading/Editing Essen 2	2
10-106-142	Software Projects	3
10-106-152	Records Management	2
10-106-172	Telephone/Messaging Skills	1
10-106-197	Office Prof Intern Practicum	1
10-801-136	English Composition 1	3
	TOTAL PROGRAM CREDITS	**35**

Supply Chain Management

As a graduate of the Supply Chain Management associate degree, you are prepared for careers in all activities involved in the flow of goods – from point of origin to the point of consumption. You are knowledgeable in transportation, inventory control, Lean operations management, purchasing, international trade, customer service, logistics management, enterprise resource planning, and negotiations. Core competencies of the program include planning and organizing, decision making, continuous improvement and problem solving, coordinating and controlling processes and managing the logistics in order to manage a customer's supply chain. Typical careers in this field include claims analyst, customer service representative, dispatcher, inventory analyst, inventory control specialist, logistics technician, materials planner, master production scheduler, purchasing assistant, shipping and receiving specialist, transportation planner/coordinator, and warehouse specialist.

FIRST SEMESTER

10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-103-141	Micro: Access-Intro	1
10-103-151	Micro: PowerPoint-Intro	1
10-104-110	Marketing Principles	3
	OR	
10-104-148	Global Marketing	3
10-182-110	Lean Operations Mgmt	3
10-182-157	Logistics/Supply Chain Mgmt	3
10-804-123	Math w Business Apps	3

SECOND SEMESTER

10-101-106	Accounting-for Non-Accountants	3
	OR	
10-101-184	Business Finance/Budgeting	3
10-102-160	Global Business Mgmt	3
10-104-191	Customer Service	3
10-182-127	Purchasing	3
10-182-190	Transportation Mgmt	3
10-801-136	English Composition 1	3

THIRD SEMESTER

10-102-100	Bus and Info Tech Occup Prep	1
10-182-120	Enterprise Resource Plan/Cont	3
10-182-160	Global Supply Chain Mgmt	3
10-801-196	Oral/Interpersonal Comm	3
10-809-166	Intro to Ethics: Theory & App	3
10-809-172	Race Ethnic & Diversity	3

FOURTH SEMESTER

10-102-104	International Business Prac	3
10-182-131	Negotiations	3
10-182-199	Supply Chain Intern Practicum	2
	OR	
10-182-197	Sup Chain Field Research	2
10-809-195	Economics	3
10-809-199	Psychology Of Human Relations	3
	Elective	3
	TOTAL PROGRAM CREDITS	**67**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

EDUCATION AND TRAINING

▶ Early Childhood Education
▶ Individualized Technical Studies
▶ Individualized Technical Studies – Journeyworker
▶ Instructional Assistant

Early Childhood Education

Early childhood educators are professionals who support the growth and development of children from birth to age eight in a variety of settings that include licensed group and family child-care programs, preschools, Head Start, public/private 4-K programs, and school age programs. In this rewarding and challenging field, you will design learning opportunities that build connections between the child, family and community. You will provide nurturing, safe, and stimulating environments, plan interesting experiences for children to discover and learn, and build healthy trusting relationships with children and families. If you love being with young children and want to be a part of this exciting and active career, our early childhood education program may be the right choice for you.

FIRST SEMESTER
10-307-148 ECE: Foundations of ECE	3
10-307-151 ECE: Infant & Toddler Dev	3
10-307-167 ECE: Hlth Safety & Nutrition	3
10-307-174 ECE: Practicum I	3
10-307-178 ECE: Art Music & Lang Arts	3
10-801-136 English Composition 1	3

SECOND SEMESTER
10-307-179 ECE: Child Development	3
10-307-188 ECE: Guiding Child Behavior	3
10-307-192 ECE: Practicum II	3
10-307-194 ECE: Math Science & Soc St	3
10-809-188 Developmental Psychology	3
10-809-196 Intro to Sociology	3

THIRD SEMESTER
10-307-166 ECE: Curriculum Planning	3
10-307-187 ECE: Children w Diff Abilities	3
10-307-195 ECE: Family & Community Rel	3
10-307-197 ECE: Practicum III	3
10-804-123 Math w Business Apps	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER
10-307-198 ECE: Admin an ECE Program	3
10-307-199 ECE: Practicum IV	3
10-801-196 Oral/Interpersonal Comm	3
10-809-195 Economics	3
Elective	3
TOTAL PROGRAM CREDITS	**69**

Individualized Technical Studies

With the growth of employment opportunities in small and mid-sized firms, employers increasingly seek workers able to take on multiple tasks and roles that cut across traditional occupational categories. With the introduction of new kinds of technologies and work processes, occupational duties and the competencies needed in the workplace are constantly in flux. To be productive and effective in today's workplace, workers may need skills and knowledge drawn from a variety of traditional disciplines. This program allows students to design a customized instructional program leading to an associate degree. The individualized program will have a specific occupational focus designed by the student in consultation with an occupational mentor, district faculty, and career advising staff.

FIRST SEMESTER
10-801-136 English Composition 1	3
10-801-198 Speech	3
10-804-123 Math w Business Apps	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
10-809-196 Intro to Sociology	3
10-809-198 Intro to Psychology	3
10-999-939 Technical Studies-Occupational	39
TOTAL PROGRAM CREDITS	**60**

Individualized Technical Studies – Journeyworker

At a time when the workplace is continuously changing with advancing technology and flexible organizational practices, new and nontraditional skills are required of the successful worker.

The Individualized Technical Studies-Journeyworker associate degree is designed for journeyworkers from various trades who are interested in continuing their education and earning a degree customized to their career interests. Thirty-nine credits are granted toward the degree based upon completion of a Wisconsin Journey Certificate that includes 400 hours or more of instruction. With a college advisor, the journeyworker identifies the knowledge and skills required to achieve specific career goals. Existing NWTC courses become components of the journeyworker's program of study.

FIRST SEMESTER
10-801-136 English Composition 1	3
10-801-197 Technical Reporting	3
10-804-118 Interm Algebra w Apps	4
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
10-809-196 Intro to Sociology	3
10-809-198 Intro to Psychology	3
10-999-939 Technical Studies-Occupational	39
TOTAL PROGRAM CREDITS	**61**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

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Instructional Assistant

As an instructional assistant, you will work directly with students under the supervision of a licensed teacher. Your education will prepare you to fulfill multiple roles such as assisting students with assignments, guiding behavior, supporting students with special needs (including personal hygiene), and clerical tasks related to instruction. You may work with children from pre-kindergarten through age 21. Your career opportunities exist in preschools, elementary schools, middle schools, and high schools.

FIRST SEMESTER

10-522-103 IA: Intro to Educ Practices	3
10-522-104 IA: Technology/Media Rsrces	3
10-801-198 Speech	3
10-809-188 Developmental Psychology	3
10-809-195 Economics	3

SECOND SEMESTER

10-522-102 IA: Techniques/Readg/Lang Art	3
10-522-106 IA: Child & Adolescent Devel	3
10-522-107 IA: Overview of Special Ed	3
10-522-111 IA: Guiding & Mnging Behavior	3
10-522-129 IA: Practicum 1	3
10-809-196 Intro to Sociology	3

THIRD SEMESTER

10-522-101 IA: Teamwork in School Setting	3
10-522-118 IA: Techniques for Math	3
10-801-136 English Composition 1	3
10-809-172 Race Ethnic & Diversity	3
Elective	3

FOURTH SEMESTER

10-522-120 IA: Techniques for Science	3
10-522-122 IA: Adv Readg/Language Arts	3
10-522-124 IA: Support Students w Disab	3
10-522-131 IA: Practicum 2	3
10-522-132 IA: Positive Classrm Mgmt Tech	3
10-804-107 College Mathematics	3
TOTAL PROGRAM CREDITS	**66**

DID YOU KNOW?

NWTC has bachelor's degree transfer agreements for 100% of associate degree programs, providing advanced standing at 35 colleges and universities including UW-Green Bay and UW-Oshkosh.

FINANCE

▶ Accounting
▶ Accounting Assistant
▶ Credit Business Management
▶ Financial Institutions Management

Accounting

As an accountant, you play a vital role in any business. You work with accounting systems, analyze business records, prepare financial reports, and supervise bookkeepers. You may work in any of the following specialties: accounts payable/receivable, payroll, inventory control, cost, public, tax, and governmental/nonprofit. With additional education and/or work experience, you may become an auditor, certified public accountant, comptroller, treasurer, or trust officer.

FIRST SEMESTER

10-101-107 Accounting Applications/Proc	2
10-101-110 Accounting 1	4
10-103-121 Micro: Word-Intro	1
10-103-131 Micro: Excel-Intro	1
10-103-132 Micro: Excel-Part 2	1
10-801-136 English Composition 1	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-101-105 Accounting-Computer Ledger	2
10-101-120 Accounting 2	4
10-101-151 Accounting-Payroll	3
10-801-196 Oral/Interpersonal Comm	3
10-809-166 Intro to Ethics: Theory & App	3
10-809-199 Psychology Of Human Relations	3

THIRD SEMESTER

10-101-131 Accounting-Intermediate	4
10-101-134 Accounting-Cost	4
10-101-154 Accounting-Personal Tax	4
10-101-189 Accounting-Applying Quickbooks	3
10-114-109 Credit-Policies/Procedures	3

FOURTH SEMESTER

10-101-142 Accounting-Managerial	3
10-101-143 Accounting-Govern/Nonprofit	2
10-101-152 Accounting-Business Tax	2
10-101-153 Accounting-Computerized Tax	1
10-101-156 Accounting-Auto Appl	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**68**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Accounting Assistant

As a graduate of this one-year technical diploma program, you'll be ready for entry-level accounting careers. Typical positions include accounts payable/receivable accountant, payroll accountant, and inventory control accountant. The credits you earn in this program can be applied to the first year of the two-year Accounting program.

FIRST SEMESTER

10-101-107	Accounting Applications/Proc	2
10-101-110	Accounting 1	4
10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-103-132	Micro: Excel-Part 2	1
10-801-136	English Composition 1	3
10-804-123	Math w Business Apps	3

SECOND SEMESTER

10-101-105	Accounting-Computer Ledger	2
10-101-120	Accounting 2	4
10-101-151	Accounting-Payroll	3
10-101-189	Accounting-Applying Quickbooks	3
10-801-196	Oral/Interpersonal Comm	3
	TOTAL PROGRAM CREDITS	**30**

Credit Business Management

Graduates of the Credit Business Management program may apply their leadership and communication skills in a variety of career opportunities including credit manager trainee, assistant credit manager, credit specialist, collection specialist, personal banker, and loan officer. With additional education and/or work experience, you may become a credit manager or commercial banker. Most credits from this associate degree can be transferred to some four-year colleges.

FIRST SEMESTER

10-102-158	Business-Introduction	3
10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-103-132	Micro: Excel-Part 2	1
10-114-109	Credit-Policies/Procedures	3
10-114-111	Credit-Consumer	4
10-801-136	English Composition 1	3

SECOND SEMESTER

10-101-110	Accounting 1	4
10-102-150	Business Law & Ethics	3
10-114-166	Credit-Collection Methods	3
10-196-191	Supervision	3
10-801-196	Oral/Interpersonal Comm	3

THIRD SEMESTER

10-114-101	Credit-Business Applications	3
10-114-170	Credit-Law	3
10-804-123	Math w Business Apps	3
10-809-195	Economics	3
10-809-199	Psychology Of Human Relations	3

FOURTH SEMESTER

10-102-100	Bus and Info Tech Occup Prep	1
10-102-181	Financial Statement Analysis	4
10-114-199	Credit-Internship Practicum	2
10-809-166	Intro to Ethics: Theory & App	3
10-809-172	Race Ethnic & Diversity	3
	Elective	3
	TOTAL PROGRAM CREDITS	**63**

Financial Institutions Management

Professionals are needed in the world of finance – from entry-level through senior management. As a graduate of the Financial Institutions Management associate degree, you have the specialized skills needed for careers such as customer service representative, personal banker, and loan officer. With additional education and/or work experience, you may also become a commercial banker or bank officer. Some other non-financial organizations may consider this associate degree also beneficial for their organizations.

FIRST SEMESTER

10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-103-132	Micro: Excel-Part 2	1
10-114-111	Credit-Consumer	4
10-114-151	Finance-Banking Principles	3
10-801-136	English Composition 1	3
10-801-196	Oral/Interpersonal Comm	3

SECOND SEMESTER

10-102-150	Business Law & Ethics	3
10-114-125	Finance-Mortgage Lend/Serv	3
10-114-153	Finance-Personal	3
10-114-167	Finance-Commercial Lending	3
10-809-195	Economics	3

THIRD SEMESTER

10-101-110	Accounting 1	4
10-114-166	Credit-Collection Methods	3
10-114-180	Finance-Money/Banking	3
10-196-191	Supervision	3
10-804-123	Math w Business Apps	3
10-809-199	Psychology Of Human Relations	3

FOURTH SEMESTER

10-114-101	Credit-Business Applications	3
10-114-155	Finance-Trust Functions/Serv	3
10-114-170	Credit-Law	3
10-809-166	Intro to Ethics: Theory & App	3
10-809-172	Race Ethnic & Diversity	3
	Elective	2
	TOTAL PROGRAM CREDITS	**67**

HEALTH SCIENCES

▶ Certified Medication Assistant
▶ Dental Assistant
▶ Dental Hygienist
▶ Diagnostic Medical Sonography
▶ Gerontology
▶ Health Care Business Services
▶ Health Information Technology
▶ Medical Assistant
▶ Medical Laboratory Technician
▶ Nursing Assistant
▶ Nursing – Associate Degree
▶ Ophthalmic Medical Assistant
▶ Pharmacy Technician
▶ Physical Therapist Assistant
▶ Practical Nursing
▶ Radiography
▶ Respiratory Therapist
▶ Surgical Technologist

Certified Medication Assistant

If you are a certified nursing assistant who is employed in a nursing home and is looking to add more challenge and variety to your daily work, the Certified Medication Assistant program is for you. With the support of your employer, you will learn to administer specific medications under the supervision of the nursing staff. You'll gain the knowledge of standard practices related to administration of medications affecting multiple body systems.
This program is not eligible for financial aid.

FIRST SEMESTER
30-510-301 Certified Medication Assistant	3
TOTAL PROGRAM CREDITS	3

Dental Assistant

As a dental assistant, you work with dentists as they examine and treat patients. You may carry out a variety of laboratory, clinical, and office duties, such as patient scheduling and bookkeeping functions. While dental assistants typically work in general or specialty dental offices, you may also choose to work for insurance companies, dental lab studios, or dental supply companies. You may also find employment with federal agencies such as the Veterans Administration, US Public Health Services, the Armed Forces, or a state, county, or city health facility. Students are given the opportunity to obtain National Board Certification prior to graduation. The Dental Assistant program is accredited by the American Dental Association Commission on Dental Accreditation.

FIRST SEMESTER
10-508-101 Dental Health Safety	1
31-508-304 Dental & General Anatomy	2
31-508-307 Dental Assistant Professional	1
31-801-385 Communicating-Writing	1
31-801-386 Communicating Effectively	1

SECOND SEMESTER
10-508-103 Dental Radiography	2
10-508-113 Dental Materials	2
10-508-120 Dental Office Management	2
31-508-302 Dental Chairside	5
31-508-306 Dental Assistant Clinical	3

THIRD SEMESTER
31-508-308 Dental Chairside Advanced	5
31-508-309 Dental Laboratory Procedures	4
31-508-310 Dental Radiography - Advanced	1
31-508-311 Dental Assistant Clinical-Adv	2
TOTAL PROGRAM CREDITS	32

Dental Hygienist

As a graduate of the Dental Hygienist program, you can choose to practice as a registered dental hygienist in any of the following settings: a public health department, private practice, long-term care facility, or public school system – on a full-time or part-time basis. Dental hygienists perform oral prophylaxis, apply preventive agents, expose radiographs, perform local anesthesia and teach patients oral care. The Dental Hygienist program is accredited by the American Dental Association-Commission on Dental Accreditation.

SUMMER SEMESTER
10-508-101 Dental Health Safety	1
10-806-177 Gen Anatomy & Physiology	4
10-806-186 Intro to Biochemistry	4

FIRST SEMESTER
10-508-102 Oral Anatomy, Embry, Histology	4
10-508-105 Dental Hygiene Process 1	4
10-508-107 Dental Hygiene Ethics & Profes	1
10-801-136 English Composition 1	3
10-806-197 Microbiology	4

SECOND SEMESTER
10-508-103 Dental Radiography	2
10-508-106 Dental Hygiene Process 2	4
10-508-108 Periodontology	3
10-508-109 Cariology	1
10-508-111 General & Oral Pathology	3

SUMMER SEMESTER
10-508-110 Nutrition and Dental Health	2
SEMESTER TOTAL	2

THIRD SEMESTER
10-508-112 Dental Hygiene Process 3	5
10-508-113 Dental Materials	2
10-508-114 Dental Pharmacology	2
10-508-115 Community Dental Health	2
10-801-196 Oral/Interpersonal Comm	3
10-809-198 Intro to Psychology	3

FOURTH SEMESTER
10-508-116 Dental Pain Management	1
10-508-117 Dental Hygiene Process 4	4
10-809-172 Race Ethnic & Diversity	3
10-809-196 Intro to Sociology	3
Elective	2
TOTAL PROGRAM CREDITS	70

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Diagnostic Medical Sonography

As a graduate of the Diagnostic Medical Sonography program, you can choose to work in a variety of health care settings including clinics, hospitals, private practice physician offices, and public health facilities and laboratories. You perform routine sonographic (ultrasound) examinations of the body to include the abdomen, small parts, obstetrics, and gynecology. You work closely with physicians and may assist in the performance of invasive procedures. The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs.

SUMMER SEMESTER
10-804-107 College Mathematics	3
10-806-143 College Physics 1	3

FIRST SEMESTER
10-501-101 Medical Terminology	3
10-526-200 Intro to DMS	3
10-526-210 Cross Sectional Anatomy	2
10-526-221 Sonography Physics 1	3
10-806-177 Gen Anatomy & Physiology	4

SECOND SEMESTER
10-526-207 Abdominal Sonography	4
10-526-208 OB/GYN Sonography 1	3
10-526-222 Sonography Physics 2	2
10-526-223 Vascular Imaging 1	3
10-806-179 Adv Anatomy & Physiology	4

SUMMER SEMESTER
10-526-203 Scanning with Proficiency	1
10-801-196 Oral/Interpersonal Comm	3

THIRD SEMESTER
10-526-209 DMS Clinical Experience 1	2
10-526-211 Superficial Sonography	2
10-526-212 OB/GYN Sonography 2	3
10-526-213 DMS Clinical Experience 2	4
10-809-198 Intro to Psychology	3

FOURTH SEMESTER
10-526-215 DMS Clinical Experience 3	4
10-526-216 DMS Clinical Experience 4	2
10-526-224 Vascular Imaging 2	3
10-801-136 English Composition 1	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**70**

Gerontology

Graduates of the Gerontology program have the knowledge and skills needed to provide seamless quality service to older adults and their families. Gerontology career pathways include a wide variety of service and leadership opportunities related to business and finances; housing options; entertainment and travel; health and wellness; case coordination; public policy and advocacy; and consumer service.

FIRST SEMESTER
10-103-121 Micro: Word-Intro	1
10-544-201 GERO: Intro to Gerontology	3
10-544-202 GERO:Physical Aspects of Aging	3
10-801-136 English Composition 1	3
10-809-103 Think Critically & Creatively	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER
10-544-203 GERO: Healthy Aging	3
10-544-204 GERO: Social Gerontology	3
10-544-205 GERO: Alzheimer's & Dementia	2
10-801-196 Oral/Interpersonal Comm	3
10-804-123 Math w Business Apps	3
10-809-188 Developmental Psychology	3

THIRD SEMESTER
10-101-106 Accounting-for Non-Accountants	3
10-104-191 Customer Service	3
10-544-206 GERO: Death and Dying	3
10-544-207 GERO:Legal & Ethical Issues Ag	3
10-544-210 GERO: Generations & Diversity	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER
10-104-110 Marketing Principles	3
10-196-191 Supervision	3
10-544-208 GERO:Developing Gerontology	3
10-544-209 GERO:Programs & Services Aging	3
10-544-211 GERO: Gerontology Internship	3
TOTAL PROGRAM CREDITS	**66**

Gerontology

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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Health Care Business Services

As a Health Care Business Services program graduate, you're ready for a career in the business office of medical and dental clinics, hospitals, nursing homes, related health care facilities, and health insurance settings in administrative, financial, and customer services roles. Typical careers include admitting representative, appointment scheduler, claims analyst, insurance billing specialist, medical records associate, patient services representative, patient accounts associate, provider relations associate, financial counselor, and medical and insurance customer service representative.

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
10-103-121 Micro: Word-Intro	1
10-501-101 Medical Terminology	3
10-530-172 Healthcare Delivery Systems	2
10-530-176 Health Data Management	2
10-530-181 Intro to the Health Record	1
10-801-136 English Composition 1	3
10-806-189 Basic Anatomy	3

SECOND SEMESTER

10-103-131 Micro: Excel-Intro	1
10-103-151 Micro: PowerPoint-Intro	1
10-160-161 Insurance Health Principles	3
10-530-155 Diagnostic/Procedure Coding	3
10-530-178 Healthcare Law & Ethics	2
10-801-196 Oral/Interpersonal Comm	3
10-804-123 Math w Business Apps	3

THIRD SEMESTER

10-101-106 Accounting-for Non-Accountants	3
10-103-141 Micro: Access-Intro	1
10-104-191 Customer Service	3
10-160-143 Medical Practice Proc	3
10-160-151 Healthcare Relations	2
10-501-102 Intro to Dental Terminology	1
10-809-198 Intro to Psychology	3

FOURTH SEMESTER

10-160-140 HCBS Internship	3
10-160-165 HCBS Organizational Resources	2
10-160-166 Medical Billing Processes	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
10-809-196 Intro to Sociology	3
TOTAL PROGRAM CREDITS	**65**

Health Information Technology

This field is where health care meets the cutting edge of technology. The Bureau of Labor Statistics cites health information as one of the fastest growing occupations in the United States. Health information technicians contribute to the quality of care by collecting, analyzing, and reporting health care data. This requires knowledge of disease, treatments, computer systems, privacy/security and organizational skills. As a graduate of this associate degree program, you are eligible for national certification, and you may work in hospitals, clinics, nursing homes, mental health facilities, home health agencies, state and federal health agencies, information system vendors, insurance companies, pharmaceutical companies and private industry. Typical careers include coding specialist, release of information specialist, health information technician, insurance/business specialist, reimbursement coordinator, data quality and integrity monitor, privacy and/or security officer, data analyst, HIM supervisor, and cancer registrar. The Health Information Technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIM).

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
10-103-121 Micro: Word-Intro	1
10-501-101 Medical Terminology	3
10-530-176 Health Data Management	2
10-530-181 Intro to the Health Record	1
10-801-136 English Composition 1	3
10-806-189 Basic Anatomy	3

SECOND SEMESTER

10-103-131 Micro: Excel-Intro	1
10-103-141 Micro: Access-Intro	1
10-103-151 Micro: PowerPoint-Intro	1
10-530-178 Healthcare Law & Ethics	2
10-530-182 Human Diseases for Hlth Profes	3
10-530-184 CPT Coding	3
10-530-197 ICD Diagnosis Coding	3
10-801-196 Oral/Interpersonal Comm	3
10-804-123 Math w Business Apps	3

THIRD SEMESTER

10-530-160 Healthcare Informatics	4
10-530-177 Healthcare Stats & Research	2
10-530-185 Healthcare Reimbursement	2
10-530-196 Professional Practice 1	3
10-530-199 ICD Procedure Coding	2
10-809-198 Intro to Psychology	3

FOURTH SEMESTER

10-530-161 Health Quality Management	3
10-530-194 HIM Organizational Resources	2
10-530-195 Applied Coding	2
10-530-198 Professional Practice 2	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**66**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Medical Assistant

Medical Assistant program graduates are eligible for employment in a variety of settings which could include physicians' offices, insurance providers, medical laboratories, or medical records departments. As a member of the health care team, the medical assistant prepares patients for examination or treatment, takes vital signs, performs simple lab tests, performs electrocardiograms, and performs administrative functions. If you are looking for a career working in a fast paced environment where you interact with many people every day, medical assistant is the career for you.

FIRST SEMESTER

10-501-101 Medical Terminology	3
10-501-107 Intro to Health Care Computing	2
31-509-301 Medical Asst Admin Procedures	2
31-509-302 Human Body in Health & Disease	3
31-509-303 Medical Asst Lab Procedures 1	2
31-509-304 Medical Asst Clin Procedures 1	4

SECOND SEMESTER

10-501-104 Healthcare Customer Serv.	2
31-509-305 Med Asst Lab Procedures 2	2
31-509-306 Med Asst Clin Procedures 2	3
31-509-307 Med Office Insurance & Finance	2
31-509-308 Pharm for Allied Health	2
31-509-309 Medical Law, Ethics & Profess	2
31-509-310 Medical Assistant Practicum	3
TOTAL PROGRAM CREDITS	**32**

Medical Laboratory Technician

As a medical laboratory technician, you're a valued member of the health care team who provides clinical information for disease prevention, medical diagnosis, and treatment of patients by processing specimens and performing laboratory tests. You may also have responsibilities for information processing, training, and quality control monitoring. While most clinical laboratory technicians work in hospitals or clinic labs, you may also choose to work for veterinary laboratories, industrial labs, insurance companies, research facilities, environmental labs, or public health labs. The Medical Laboratory Technician program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Program graduates are eligible to take the Medical Laboratory Technician certification exam through the American Society for Clinical Pathology.

FIRST SEMESTER

10-501-101 Medical Terminology	3
10-513-110 Basic Lab Skills	1
10-513-111 Phlebotomy	2
10-513-113 QA Lab Math	1
10-513-115 Basic Immunology Concepts	2
10-806-177 Gen Anatomy & Physiology	4
10-806-186 Intro to Biochemistry	4

SECOND SEMESTER

10-513-109 Blood Bank	4
10-513-114 Urinalysis	2
10-513-120 Basic Hematology	3
10-513-121 Coagulation	1
10-801-136 English Composition 1	3
10-806-197 Microbiology	4

SUMMER SEMESTER

10-801-196 Oral/Interpersonal Comm	3
10-809-198 Intro to Psychology	3

THIRD SEMESTER

10-513-130 Advanced Hematology	2
10-513-131 Clinical Chemistry 1	3
10-513-132 Clinical Chemistry 2	2
10-513-133 Clinical Microbiology	4
10-513-140 Advanced Microbiology	2

FOURTH SEMESTER

10-513-151 Clinical Experience 1	3
10-513-152 Clinical Experience 2	4
10-513-153 Clinical Experience 3	4
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**67**

Nursing Assistant

Nursing Assistant program graduates are eligible for employment in a variety of settings which could include an acute care hospital, long-term care/rehab facility, or home health agency. As a member of the health care team, the nursing assistant provides personal and daily care to clients who need assistance. Why choose the Nursing Assistant program at NWTC? Success – more than 98 percent of NWTC Nursing Assistant graduates pass their written competency test on their first attempt. And the number of NWTC graduates who pass the skills test is higher than the state of Wisconsin average. Quality – many students are offered employment during their clinical experience. Expertise – the Nursing Assistant faculty all have extensive work experience in taking care of elderly clients.
This program is not eligible for financial aid.

FIRST SEMESTER

30-543-300 Nursing Assistant	3
TOTAL PROGRAM CREDITS	**3**

DID YOU KNOW?

NWTC is among the top 10 percent of community colleges in the U.S. for helping students learn, graduate and succeed, according to the Aspen Institute. There is a passion for excellence college-wide that continues to drive graduates to excel in their fields. NWTC Health Sciences graduates consistently perform above the national average on board exams required for employment—the same board exams administered to four-year university students.

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

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Nursing-Associate Degree

As a nurse, you make a difference in the lives of your patients. You plan, provide, and evaluate patient care. You act as a liaison between physicians, other health care workers, and the patient. You also supervise other health care providers. Why choose the ADN program at NWTC? Quality – NWTC ADN graduates take the same national licensing exam that graduates from four-year colleges and universities do, and NWTC graduates consistently score above the national average. Success – NWTC nursing graduates report greater than 90 percent job placement as RNs within six months of graduation. Expertise – classroom, lab and simulation instruction, extensive clinical experience at area hospitals, extended care facilities and clinics, and service opportunities like work at the N.E.W. Clinic at NWTC all provide hands-on patient care experience that helps make NWTC graduates effective on the job.

PRE-SEMESTER
10-806-186 Intro to Biochemistry	4

FIRST SEMESTER
10-543-101 Nursing Fundamentals	2
10-543-102 Nursing Skills	3
10-543-103 Nursing Pharmacology	2
10-543-104 Nsg: Intro Clinical Practice	2
10-801-136 English Composition 1	3
10-806-177 Gen Anatomy & Physiology	4
10-809-188 Developmental Psychology	3

SECOND SEMESTER
10-543-105 Nursing Health Alterations	3
10-543-106 Nursing Health Promotion	3
10-543-107 Nsg: Clin Care Across Lifespan	2
10-543-108 Nsg: Intro Clinical Care Mgt	2
10-801-196 Oral/Interpersonal Comm	3
10-806-179 Adv Anatomy & Physiology	4

THIRD SEMESTER
10-543-109 Nsg: Complex Health Alterat 1	3
10-543-110 Nsg: Mental Health Comm Con	2
10-543-111 Nsg: Intermed Clin Practice	3
10-543-112 Nursing Advanced Skills	1
10-806-197 Microbiology	4
10-809-198 Intro to Psychology	3

FOURTH SEMESTER
10-543-113 Nsg: Complex Health Alterat 2	3
10-543-114 Nsg: Mgt & Profess Concepts	2
10-543-115 Nsg: Adv Clinical Practice	3
10-543-116 Nursing Clinical Transition	2
10-809-196 Intro to Sociology	3
Elective	1
TOTAL PROGRAM CREDITS	70

Nursing-Associate Degree

▶ NEW PROGRAM!
Ophthalmic Medical Assistant

As an Ophthalmic Assistant program graduate, you are eligible for employment in a variety of settings which could include ophthalmologic and optometric practices and retail optical settings. You may perform prescreening and specialty eye care testing, assist with dispensing glasses and contact lenses, and perform office management duties, including maintaining patient information and billing and insurance processes. Typical careers in this field include ophthalmic assistant, ophthalmic medical assistant, optical assistant, and contact lens technician.

A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Lakeshore Technical College.

FIRST SEMESTER
10-501-101 Medical Terminology	3
10-501-107 Intro to Health Care Computing	2
10-809-199 Psychology Of Human Relations	3
31-501-301 Learning Strategies for Health	1
31-806-312 Anatomy/Struct-Funct	2

SECOND SEMESTER
31-509-302 Human Body in Health & Disease	3
31-516-302 Optical Dispensing	3
31-516-303 Optical Concepts	3
31-516-304 Ophthalmic Pre-Testing	3
31-516-306 Basic Ocular Science	4

THIRD SEMESTER
10-501-104 Healthcare Customer Serv.	2
31-509-301 Medical Asst Admin Procedures	2
31-509-307 Med Office Insurance & Finance	2
31-509-309 Medical Law, Ethics & Profess	2
31-516-312 Contact Lenses	2
31-516-330 Ophthalmic Clinical Procedures	4
31-516-343 Ophthalmic Clinical Experience	3
TOTAL PROGRAM CREDITS	44

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Pharmacy Technician

If you're ill or injured, you have access to an enormous variety of therapeutic medications, and you trust your pharmacy to correctly interpret and fill your prescriptions. Pharmacy technicians contribute to our safety by assisting pharmacists in a variety of technical tasks. If you're attentive to detail, organized, a good communicator, and like math, science, and working with people, a career as a pharmacy technician may be your prescription for success.

A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Lakeshore Technical College.

FIRST SEMESTER

10-501-101 Medical Terminology	3
10-510-102 Health Insurance & Reimburse	3
10-536-110 Pharmaceutical Calculations	3
10-536-112 Pharmacy Business Apps	4
10-536-115 Pharmacy Law	2
10-536-120 Fundamentals of Reading Prescr	1
10-536-138 Pharmacy Community Clinical	2

SECOND SEMESTER

10-536-122 Pharmacology	3
10-536-124 Pharmacy Drug Distribution	1
10-536-126 Pharmacy Parenteral Admixtures	3
10-536-140 Pharmacy Hospital Clinical	3
10-536-141 Hospital Clinical Lab	2
OR	
10-536-142 Pharmacy Community Clinical-Adv	2
10-801-196 Oral/Interpersonal Comm	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**36**

Physical Therapist Assistant

Physical therapist assistants assist the physical therapist in the provision of physical therapy, perform physical therapy interventions and related tasks, carry out operational functions, make modifications within the scope of the established plan of care, and perform documentation and assessments. The state of Wisconsin requires a license to practice as a physical therapist assistant. As a graduate of this associate degree program, you are eligible to take the National Physical Therapist Examination for Physical Therapist Assistants through the Federation of State Boards of Physical Therapy.

FIRST SEMESTER

10-524-138 PTA Kinesiology I	3
10-524-139 PTA Patient Interventions	4
10-524-140 PTA Professional Issues I	2
10-801-196 Oral/Interpersonal Comm	3
10-806-177 Gen Anatomy & Physiology	4

SECOND SEMESTER

10-524-141 PTA Kinesiology II	4
10-524-142 PTA Therapeutic Exercise	3
10-524-143 PTA Therapeutic Modalities	4
10-801-136 English Composition I	3
10-809-196 Intro to Sociology	3

SUMMER SEMESTER

10-524-155 PTA Pediatrics	3
10-809-172 Race Ethnic & Diversity	3
10-809-198 Intro to Psychology	3

THIRD SEMESTER

10-524-144 PTA Princ of Neuro Rehab	4
10-524-145 PTA Princ of Musculo Rehab	4
10-524-146 PTA Cardio & Integ Mgmt	3
10-524-147 PTA Clinical Practice I	2
10-809-188 Developmental Psychology	3

FOURTH SEMESTER

10-524-148 PTA Clinical Practice II	3
10-524-149 PTA Rehab Across the Lifespan	2
10-524-150 PTA Professional Issues II	2
10-524-151 PTA Clinical Practice III	5
TOTAL PROGRAM CREDITS	**70**

Practical Nursing

As a Practical Nursing program graduate, you're eligible for careers in a variety of settings which could include an acute care hospital, long term care/rehab facility, physicians' office, insurance provider, or home health agency. As a member of the health care team, the licensed practical nurse provides care to patients whose conditions are relatively stable and assists the registered nurse or healthcare provider in the care of the acutely ill patient. Why choose the Practical Nursing program at NWTC? Success – more than 95 percent of NWTC Practical Nursing graduates consistently pass their NCLEX-PN on their first attempt. Quality – many students are offered employment during their final clinical experience. Expertise – the Practical Nursing faculty are experts in the nursing profession who have completed graduate level nursing education.

FIRST SEMESTER

10-801-136 English Composition 1	3
31-806-312 Anatomy/Struct-Funct	2

SECOND SEMESTER

10-809-188 Developmental Psychology	3
31-543-301 Nursing Fundamentals	2
31-543-302 Nursing Skills	3
31-543-303 Nursing Pharmacology	2
31-543-304 Nsg:Intro to Clinical Practice	2

THIRD SEMESTER

10-801-196 Oral/Interpersonal Comm	3
31-543-305 Nursing Health Alterations	3
31-543-306 Nursing Health Promotion	3
31-543-307 Nsg:Clin Care Across Lifespan	2
31-543-308 Nsg:Intro Clinical Care Mgt	2
TOTAL PROGRAM CREDITS	**30**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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Radiography

Radiography is an exciting and challenging field involving the use of highly sophisticated equipment to create radiographs – the anatomical images that are used by physicians to diagnose disease. Radiographers have direct patient contact in clinic and hospital settings and are valuable members of the primary health care team. A graduate of the Radiography program can choose a career in a variety of health care settings including clinics, hospitals, and private practice physician offices. Graduates of the program are qualified to take the American Registry of Radiologic Technologist Certification Examination. Career advancement opportunities exist in additional imaging modalities, education, administration, as education/application specialists, sales representatives, and technical advisors.

SUMMER SEMESTER

10-804-107 College Mathematics	3
10-806-177 Gen Anatomy & Physiology	4

FIRST SEMESTER

10-526-149 Radiographic Procedures 1	5
10-526-158 Introduction to Radiography	3
10-526-159 Radiographic Imaging 1	3
10-526-168 Radiography Clinical 1	2
10-526-195 Radiographic Quality Analysis	2

SECOND SEMESTER

10-526-170 Radiographic Imaging 2	3
10-526-189 Radiographic Pathology	1
10-526-191 Radiographic Procedures 2	5
10-526-192 Radiography Clinical 2	3
10-526-194 Imaging Equipment Operation	3

SUMMER SEMESTER

10-526-193 Radiography Clinical 3	3
10-809-198 Intro to Psychology	3

THIRD SEMESTER

10-526-196 Modalities	3
10-526-197 Radiation Protection & Biology	3
10-526-199 Radiography Clinical 4	3
10-801-196 Oral/Interpersonal Comm	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-526-174 ARRT Certification Seminar	2
10-526-190 Radiography Clinical 5	2
10-526-198 Radiography Clinical 6	2
10-801-136 English Composition 1	3
10-809-166 Intro to Ethics: Theory & App	3
TOTAL PROGRAM CREDITS	**70**

Respiratory Therapist

As a graduate of the Respiratory Therapist program, you're prepared to evaluate, diagnose, treat and rehabilitate patients with chronic and acute diseases of the heart and lungs. Typical careers include hospital staff therapist, pulmonary rehabilitation therapist, perinatal/pediatric therapist, pulmonary function technologist, sleep disorder center technician, shift supervisor, department manager, home care therapist/manager, nursing home therapist, respiratory care educator, and medical equipment and supplies sales representative. Respiratory Therapist program graduates are eligible to take the National Board for Respiratory Care Credentialing Examination.

FIRST SEMESTER

10-501-101 Medical Terminology	3
10-515-111 Respiratory Survey	3
10-801-196 Oral/Interpersonal Comm	3
10-806-177 Gen Anatomy & Physiology	4
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-515-171 Respiratory Therapeutics 1	3
10-515-173 Respiratory Pharmacology	3
10-515-174 Respiratory/Cardiac Physiology	3
10-801-136 English Composition 1	3
10-806-197 Microbiology	4

SUMMER SEMESTER

10-515-172 Respiratory Therapeutics 2	3
10-515-175 Respiratory Clinical 1	2

THIRD SEMESTER

10-515-112 Respiratory Airway Management	2
10-515-113 Respiratory Life Support	3
10-515-176 Respiratory Disease	3
10-515-178 Respiratory Clinical 2	3
10-515-179 Respiratory Clinical 3	3
10-809-196 Intro to Sociology	3

FOURTH SEMESTER

10-515-164 Clinical Simulation Review	2
10-515-180 Respiratory Neo/Peds Care	2
10-515-181 Respiratory/Cardio Diagnostics	3
10-515-182 Respiratory Clinical 4	3
10-515-183 Respiratory Clinical 5	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**70**

DID YOU KNOW?

NWTC Radiography graduates have had a 100% first-time pass rate on the national registry examination every year since the program was founded.

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Surgical Technologist

As a surgical technologist, you are a valuable member of the surgical team. You will prepare and maintain a sterile field before and during surgery, pass instruments and supplies to the surgeon, provide safe patient care, and prepare instruments for operative procedures. You may work in a hospital, outpatient surgery, private practice, or clinical setting. As a Surgical Technologist program graduate, you may also have a career as a central supply technician, claims approver, private scrub technician and medical sales. Graduates of this technical diploma are required to take the Surgical Technology National Certification Exam.

FIRST SEMESTER

10-501-101 Medical Terminology	3
31-509-302 Human Body in Health & Disease	3
31-512-326 ST: Infection Control	1
31-801-385 Communicating-Writing	1
31-801-386 Communicating Effectively	1

SECOND SEMESTER

31-512-327 ST: Introduction	4
31-512-328 ST: Fundamentals 1	4
31-512-329 ST: Fundamentals 2	2
31-512-330 ST: Clinical 1	3

THIRD SEMESTER

31-512-331 ST: Surgical Procedures	4
31-512-332 ST: Clinical 2	4
31-512-334 ST: Clinical 3	4
TOTAL PROGRAM CREDITS	**34**

Surgical Technologist

Hotel and Restaurant Management

Graduates of the Hotel and Restaurant Management associate degree program are prepared for mid-management careers in hotel management, food service operations and tourism. Career opportunities include front office manager, event service manager, food service manager, executive housekeeper, revenue enhancement manager, building superintendent and sales manager. Many graduates secure employment in hotels, motels, restaurants, food services departments, golf/country clubs, ski resorts, private/industrial catering firms, assisted living centers, universities, and cruise ships.

FIRST SEMESTER

10-102-158 Business-Introduction	3
10-103-121 Micro: Word-Intro	1
10-101-190 Accounting-QuickBooks	1
10-103-131 Micro: Excel-Intro	1
10-109-114 Hotel Management	3
10-801-136 English Composition I	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-104-101 Selling Principles	3
10-104-191 Customer Service	3
10-109-126 Hospitality Finance	3
10-801-198 Speech	3
10-809-195 Economics	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-102-160 Global Business Mgmt	3
10-104-110 Marketing Principles	3
10-104-119 Social Media Marketing	3
10-109-127 Hospitality Facilities Mgmt	3
10-145-177 Entrepreneurship	3
OR	
10-196-145 Workplace Innovation	3
10-809-103 Think Critically & Creatively	3

FOURTH SEMESTER

10-102-150 Business Law & Ethics	3
10-104-125 Event Marketing	3
10-109-168 Restaurant Management	3
10-109-199 Hosp Tour Intern Practicum	2
OR	
10-109-197 Hosp Tour Field Research	2
10-809-172 Race Ethnic & Diversity	3
10-809-199 Psychology Of Human Relations	3
TOTAL PROGRAM CREDITS	**66**

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HUMAN SERVICES

▶ Early Childhood Education
▶ Human Services Associate

Early Childhood Education

Early childhood educators are professionals who support the growth and development of children from birth to age eight in a variety of settings that include licensed group and family child-care programs, preschools, Head Start, public/private 4-K programs, and school age programs. In this rewarding and challenging field, you will design learning opportunities that build connections between the child, family and community. You will provide nurturing, safe, and stimulating environments, plan interesting experiences for children to discover and learn, and build healthy trusting relationships with children and families. If you love being with young children and want to be a part of this exciting and active career, our early childhood education program may be the right choice for you.

FIRST SEMESTER

10-307-148 ECE: Foundations of ECE	3
10-307-151 ECE: Infant & Toddler Dev	3
10-307-167 ECE: Hlth Safety & Nutrition	3
10-307-174 ECE: Practicum I	3
10-307-178 ECE: Art Music & Lang Arts	3
10-801-136 English Composition 1	3

SECOND SEMESTER

10-307-179 ECE: Child Development	3
10-307-188 ECE: Guiding Child Behavior	3
10-307-192 ECE: Practicum II	3
10-307-194 ECE: Math Science & Soc St	3
10-809-188 Developmental Psychology	3
10-809-196 Intro to Sociology	3

THIRD SEMESTER

10-307-166 ECE: Curriculum Planning	3
10-307-187 ECE: Children w Diff Abilities	3
10-307-195 ECE: Family & Community Rel	3
10-307-197 ECE: Practicum III	3
10-804-123 Math w Business Apps	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-307-198 ECE: Admin an ECE Program	3
10-307-199 ECE: Practicum IV	3
10-801-196 Oral/Interpersonal Comm	3
10-809-195 Economics	3
Elective	3
TOTAL PROGRAM CREDITS	**69**

Human Services Associate

Professionals are needed to work with individuals, groups, and communities in a variety of human service agencies including social services; community corrections; youth services; hospitals; nursing facilities; group homes; alcohol, tobacco, and other drug abuse agencies, crisis intervention centers, and programs for the aging. As a graduate of this associate degree program, you have the skills needed for entry-level careers in human services. With this associate degree, and completion of the AODA certificate, you are eligible for licensing in the state of Wisconsin as a substance abuse counselor. The AODA certificate may be completed in conjunction with the Human Services program.

A Northcentral Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Northcentral Technical College.

FIRST SEMESTER

10-520-101 Introduction to Human Services	3
10-550-175 Personal and Professional Dev	1
10-550-178 Intro to Counseling Theory	3
10-801-195 Written Communication	3
10-809-196 Intro to Sociology	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-550-170 Understanding Substance Abuse	3
10-550-176 Ethical AODA Case/Record Mgmt	3
10-550-179 Methods of AODA Counseling	3
10-801-196 Oral/Interpersonal Comm	3
10-809-159 Abnormal Psychology	3
10-809-188 Developmental Psychology	3

THIRD SEMESTER

10-520-106 Human Sexuality	3
10-520-109 Child and Adolescent Behavior	3
10-520-121 Field Experience I	3
10-544-201 GERO: Intro to Gerontology	3
10-550-177 AODA Assessment and Diagnosis	3
10-809-174 Social Problems	3

FOURTH SEMESTER

10-520-119 Advanced Counseling Theory	3
10-520-122 Field Experience II	3
10-550-172 Group Facilitation	3
10-550-173 Psychopharmacology OR	3
10-550-174 Overview of Mental Disorders	3
10-804-107 College Mathematics	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**70**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

INFORMATION TECHNOLOGY

▶ Computer Support Specialist – IT
▶ Computer Support Technician – IT
▶ Network Specialist – IT
▶ Web Development

Computer Support Specialist-IT

The demand for computer support specialists is growing as the number of computers and their level of complexity rise, according to the U.S. Department of Labor. As a Computer Support Specialist – IT program graduate, you're prepared for a variety of careers including IT consultant, help desk/support specialist, PC programmer, computer sales representative, IT trainer, network assistant, desktop application developer, and PC repair technician.

FIRST SEMESTER
10-101-106 Accounting-for Non-Accountants	3
10-150-174 IT:Network:Client Op Sys	3
10-154-150 IT:Support:Hardware-Intro	3
10-154-160 IT:Support:Software-Intro	3
10-801-136 English Composition 1	3
10-804-133 Math & Logic	3

SECOND SEMESTER
10-102-158 Business-Introduction	3
10-152-163 IT:Program:Visual Basic	3
10-154-153 IT:Support:Oper Sys & Data Com	3
10-154-190 IT:Support:Help Desk/User Sup	2
10-801-196 Oral/Interpersonal Comm	3
10-801-197 Technical Reporting	3

THIRD SEMESTER
10-102-100 Bus and Info Tech Occup Prep	1
10-107-194 IT:Documentation	2
10-150-163 IT:Network:Cisco 1	3
OR	
10-150-165 IT:Network:Microsoft Server 1	3
10-154-125 IT:Web:Database Development	3
10-154-157 IT:Support:Advanced Projects	3
10-154-171 IT:Support:Integration-VBA	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER
10-107-195 IT:Training	2
10-152-184 IT:Web:Programming-SQL	3
10-152-185 Website Coding	3
10-154-199 IT:Support: Intern Practicum	2
10-809-195 Economics	3
10-809-199 Psychology Of Human Relations	3
TOTAL PROGRAM CREDITS	**69**

Computer Support Technician – IT

This one-year technical diploma emphasizes problem solving using microcomputer hardware and software facilities including command line environment and Windows operating systems, Microsoft Word, and Microsoft Excel. As a graduate, you may choose a career as an IT consultant, providing one-on-one problem solving for computer users, or work as a computer sales representative. The credits you earn in this program can be applied to the first year of the two-year Computer Support Specialist – IT program on the Green Bay campus.

FIRST SEMESTER
10-101-106 Accounting-for Non-Accountants	3
10-150-174 IT:Network:Client Op Sys	3
10-154-150 IT:Support:Hardware-Intro	3
10-154-160 IT:Support:Software-Intro	3
10-801-136 English Composition 1	3
10-804-133 Math & Logic	3

SECOND SEMESTER
10-102-158 Business-Introduction	3
10-152-163 IT:Program:Visual Basic	3
10-154-153 IT:Support:Oper Sys & Data Com	3
10-154-190 IT:Support:Help Desk/User Sup	2
10-801-196 Oral/Interpersonal Comm	3
10-801-197 Technical Reporting	3
TOTAL PROGRAM CREDITS	**35**

Network Specialist – IT

Network specialists are network engineers who are responsible for computer hardware and software installations, upgrade, maintenance, and troubleshooting. Network specialists can also choose to be network administrators or analysts, concentrating on network design and security. Further responsibilities include monitoring and maintaining an active network for optimal performance. Graduates of this associate degree are also prepared to pursue vendor certification as a network engineer.

FIRST SEMESTER
10-103-141 Micro: Access-Intro	1
10-106-145 Keyboarding	1
10-150-163 IT:Network:Cisco 1	3
10-150-174 IT:Network:Client Op Sys	3
10-154-150 IT:Support:Hardware-Intro	3
10-801-136 English Composition 1	3
10-804-133 Math & Logic	3

SECOND SEMESTER
10-107-194 IT:Documentation	2
10-150-157 IT:Network:UNIX/LINUX-Intro	3
10-150-165 IT:Network:Microsoft Server 1	3
10-150-168 IT:Network:Cisco 2	3
10-801-196 Oral/Interpersonal Comm	3
10-809-195 Economics	3

THIRD SEMESTER
10-150-145 IT:Network:Security Fund	3
10-150-186 IT:Network:Microsoft Server 2	4
10-150-188 IT:Network:Apps-Microsoft	4
10-809-172 Race Ethnic & Diversity	3
10-809-199 Psychology Of Human Relations	3

FOURTH SEMESTER
10-102-100 Bus and Info Tech Occup Prep	1
10-150-170 IT:Network:Capstone	2
10-150-173 IT:Newtork:Cisco 3	3
10-150-197 IT:Network:Apps-Linux	3
10-150-199 IT:Network: Intern Practicum	2
10-809-166 Intro to Ethics: Theory & App	3
Elective	3
TOTAL PROGRAM CREDITS	**68**

▶ Criminal Justice – Corrections
▶ Criminal Justice – Law Enforcement
▶ Criminal Justice – Law Enforcement Academy
▶ Emergency Medical Technician – Basic
▶ Emergency Medical Technician – Intermediate Technician
▶ Fire Protection Engineering Technology
▶ Fire Protection Technician
▶ Judicial Reporting
▶ Paralegal
▶ Paramedic – Emergency Medical Technician

Web Development

Web developers design, implement, and maintain internet and internet web applications/sites. As a graduate of the Web Development associate degree, you're prepared for such careers as web developer, web technical support specialist, and web analyst. You play a key role in internet-based business systems and websites using concepts in design and programming.

FIRST SEMESTER

10-111-101 Macintosh-Image Editing	3
10-111-103 Macintosh-Intro	1
10-150-144 IT:Network:Operating Sys Fund	3
10-152-185 Website Coding	3
10-154-125 IT:Web:Database Development	3
10-804-133 Math & Logic	3

SECOND SEMESTER

10-135-150 Web Graphic Design	3
10-135-152 Web Animation Design	3
10-152-184 IT:Web:Programming-SQL	3
10-801-136 English Composition 1	3
10-801-196 Oral/Interpersonal Comm	3
10-809-199 Psychology Of Human Relations	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-135-115 Online Search Strategies	3
10-135-151 Website Design	3
10-152-180 IT:Web:Scripting-Javascript	3
10-152-182 IT:Web:Scripting-PHP	3
10-809-103 Think Critically & Creatively	3

FOURTH SEMESTER

10-135-180 Web Campaign Management	3
10-135-185 Web Emerging Technologies	2
10-135-199 Web Dev Internship Practicum	2
OR	
10-135-197 Web Dev Field Research	2
10-152-183 IT:Web:Scripting-ASP.Net	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**66**

Criminal Justice – Corrections

Graduates of this two-year program are prepared to enter the workforce as correctional professionals with the skills, knowledge, and ability necessary for safe and effective security procedures, interviewing, use of force, report writing, interpretation of applicable law, community corrections practices, communication skills, offender supervision, crisis intervention, offender restraint, juvenile intervention, offender program planning, offender assessment, searches, emergency response, and ethical intervention. This program offers the flexibility to graduate with an associate degree in criminal justice and be certifiable to become a correctional officer or juvenile detention officer. Graduates of the program have the potential for employment as a correctional officer, youth care worker, or secure juvenile detention officer. With additional education or work experience, graduates may be employable as a correctional social worker, Division of Community Corrections agent, youth or adult counselor, or other advanced correctional professional.

FIRST SEMESTER

10-504-114 Police-Nutrition/Fitness	1
10-801-136 English Composition 1	3
10-801-196 Oral/Interpersonal Comm	3
10-804-107 College Mathematics	3
10-809-166 Intro to Ethics: Theory & App	3
10-809-197 Contemporary Amer Society	3

SECOND SEMESTER

10-504-123 Correctional Institutions	3
10-504-132 Courts/Jurisdiction	3
10-504-153 Ethics - Criminal Justice	3
10-504-900 Intro to Criminal Justice	3
10-504-931 Communication Skills	3
10-504-933 Correctional Report Writing	3

THIRD SEMESTER

10-504-155 Community Corrections	3
10-504-172 Criminology	3
10-504-932 Adult Supervision	3
10-504-934 Correctional Law & Code	3
10-504-937 Juvenile Supervision	3

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

FOURTH SEMESTER

10-504-930	Security Procedures	3
10-504-935	Corrections Summary Assessment	1
10-801-198	Speech	3
10-809-172	Race Ethnic & Diversity	3
10-809-199	Psychology Of Human Relations	3
	Elective	2
	TOTAL PROGRAM CREDITS	**64**

Students enrolled in either of the Associate Degree Criminal Justice programs planning to become certifiable must complete core criminal justice courses for the program within three years. The clock starts for a college certification track student on the first day the student enters into a core criminal justice course.

Criminal Justice – Law Enforcement

Graduates of this two-year program are prepared to meet the rewarding challenges of the police profession, including criminal investigation, traffic and criminal law, patrol procedures, crime scene practices, and use of force and driving skills. This program offers the flexibility to graduate with an associate degree in criminal justice or be certifiable to become a law enforcement officer. The certifiable "track" is recognized and endorsed by the state of Wisconsin Department of Justice Training and Standards. Typical careers in this field include police officer, deputy sheriff, DNR officer, state trooper, military law enforcement officer, private investigator, and correctional officer as well as careers in corporate security, loss prevention, U.S. customs, transportation security administration, and border patrol.

FIRST SEMESTER

10-504-114	Police-Nutrition/Fitness	1
10-801-136	English Composition 1	3
10-801-196	Oral/Interpersonal Comm	3
10-804-107	College Mathematics	3
10-809-166	Intro to Ethics: Theory & App	3
10-809-197	Contemporary Amer Society	3

SECOND SEMESTER

10-504-132	Courts/Jurisdiction	3
10-504-153	Ethics - Criminal Justice	3
10-504-900	Intro to Criminal Justice	3
10-504-901	Constitutional Law	3
10-504-903	Professional Communications	3
10-504-905	Report Writing	3

THIRD SEMESTER

10-504-143	Forensic Application	3
10-504-902	Criminal Law	3
10-504-904	Juvenile Law	3
10-504-906	Criminal Investigation Theory	3
10-504-907	Community Policing Strategies	3
10-504-908	Traffic Theory	3

FOURTH SEMESTER

10-531-101	Emergency Response	1
10-801-198	Speech	3
10-809-172	Race Ethnic & Diversity	3
10-809-199	Psychology Of Human Relations	3
	Elective	3
	TOTAL PROGRAM CREDITS	**65**

Students enrolled in either of the Associate Degree Criminal Justice programs looking to become certifiable must complete core criminal justice courses for their program within three years. The clock starts for a college certification track student on the first day the student enters into a core criminal justice course. These courses must be completed successfully within the 3-year time frame before a DOJ transcript can be submitted.

Criminal Justice – Law Enforcement Academy

Students learn the many skills of modern-day law enforcement in this full-time, 13-week program designed to produce thoroughly competent and confident officers. As a graduate of the Academy, you begin your career with an unparalleled level of professionalism as well as the ability to confront threats of terror to our homeland security. Your career opportunities include police officer, deputy sheriff, DNR officer, state trooper, military law enforcement officer, and private investigator. This 592-hour program is designed for individuals with an associate degree in criminal justice, 60 college credits at an associate's degree level or higher, or current employment with a sponsoring law enforcement agency.
This program is not eligible for financial aid.

FIRST SEMESTER

30-504-337	Policing in America	1
30-504-338	Legal Context	1
30-504-339	Tactical Skills	3
30-504-340	Relational Skills	3
30-504-341	Patrol Procedures	3
30-504-342	Investigations	2
30-504-343	OMVWI/SFST	1
30-504-345	Police-Fit to Serve	2
30-504-346	Scenario Evaluation	1
	TOTAL PROGRAM CREDITS	**17**

Emergency Medical Technician – Basic

Emergency Medical Technician-Basic students perform emergency patient care and basic life support skills in compliance with the Wisconsin scope of practice including the transport of injured and ill patients to hospital emergency departments. Graduates with an EMT-Basic technical diploma will have the potential for employment as an emergency medical technician. Ambulance services in Wisconsin are volunteer, private, fire based or hospital based.

FIRST SEMESTER

10-531-102	EMT Basic	5
	TOTAL PROGRAM CREDITS	**5**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

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Emergency Medical Technician – Intermediate Technician

EMT Intermediate Technician students are Wisconsin licensed EMT-basics seeking to upgrade their skills to the EMT intermediate technician level. These skills are performed and compliant with the Wisconsin scope of practice. A graduate of this technical diploma program has the potential for employment as an EMT intermediate technician, performing pre-hospital patient care for the ill and injured with a Wisconsin ambulance service licensed to provide EMT intermediate technician level care. Ambulance services in Wisconsin are volunteer, private, fire based or hospital based.

FIRST SEMESTER

30-531-340 EMT-Intermediate Technician	2
TOTAL PROGRAM CREDITS	2

Fire Protection Engineering Technology

If you want to make a difference in your career by keeping our communities safe from the danger and destruction of fire, consider a future in fire protection engineering technology. In this exciting field, the principles of science and engineering are used to protect people and their environments from the devastating effects of fire and smoke. To safeguard our homes, buildings, and businesses, highly-skilled professionals are needed to design, install, and service automatic sprinkler, fire alarm, and special hazard fire suppression systems. Typical careers for graduates of the Fire Protection Engineering Technology program include fire protection systems designer, fire protection equipment sales representative, fire protection systems installer, and industrial safety technician.

FIRST SEMESTER

10-503-114 Fire Protection Fundamentals	3
10-503-115 Fire Tech Prt Rdg/Sketching	3
10-503-136 Sprinkler Systems 1	2
10-606-115 CAD	3
10-801-196 Oral/Interpersonal Comm	3
10-804-107 College Mathematics	3

SECOND SEMESTER

10-503-120 Special Hazards Systems 1	3
10-503-126 Sprinkler Hydraulics-Auto	3
10-503-132 Fire Detection-Elec 1	3
10-503-137 Sprinkler Systems 2	4
10-503-180 Nicet-Basic	2
10-606-128 CAD-Fire Tech Advanced	1
10-801-136 English Composition 1	3

THIRD SEMESTER

10-503-128 Fire Alarm System Design	2
10-503-129 Fire Alarm Systems Application	1
10-503-135 Fire Detection-Elec 2	3
10-503-138 Hazard Analysis	3
10-503-149 Sprinkler Systems 3	2
10-503-XXX NICET Advanced	1
AND/ OR	
10-503-XXX NICET Advanced	1
10-809-199 Psychology Of Human Relations	3

FOURTH SEMESTER

10-503-140 Special Hazards Systems 2	3
10-503-148 Technical Project	3
10-503-XXX NICET Advanced	1
OR	
10-503-XXX NICET Advanced	1
OR	
10-503-XXX NICET Advanced	1
OR	
10-503-XXX NICET Advanced	1
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
10-809-197 Contemporary Amer Society	3
TOTAL PROGRAM CREDITS	68

Any three of the six NICET Advanced courses must be taken prior to graduation. NICET Advanced Sprinklers; NICET Advanced Special Haz 1; NICET Advanced Sprinklers 2; NICET Advanced Special Haz 2: NICET Advanced Alarms; NICET Advanced Alarms 2

Fire Protection Technician

As a fire protection technician, you protect life and property through fire prevention efforts and, if necessary, by proper firefighting principles and techniques. Upon graduation from the Fire Protection Technician program, you are well trained in the progressive, proactive philosophy of the modern fire service which emphasizes fire prevention and public education as well as the traditional firefighting and emergency medical service components.
A Fox Valley Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Fox Valley Technical College.

GENERAL STUDIES

10-801-136 English Composition 1	3
OR	
10-801-195 Written Communication	3
10-801-198 Speech	3
10-804-107 College Mathematics	3
10-806-134 General Chemistry	4
10-809-195 Economics	3
10-809-196 Intro to Sociology	3
10-809-198 Intro to Psychology	3

TECHNICAL STUDIES

10-107-150 Microcomputer Applications	2
10-503-101 Technical Rescue	4
10-503-130 Fire Protection Internship	2
10-503-139 Principles of Emergency Svcs	3
10-503-142 Fire Fighting Principles	4
10-503-143 Building Construction	3
10-503-147 Fire Protection Systems	4
10-503-151 Fire Prevention	4
10-503-152 Hazardous Materials	4
10-503-155 Fire Protection Hydraulics	4
10-503-156 Strategies, Tactics, Inc Mgmt	4
10-503-157 Fire Investigation	3
10-531-102 EMT Basic	3
Electives	3
TOTAL PROGRAM CREDITS	69

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

Judicial Reporting

You've seen the high profile trials with a person keying the testimony into a stenograph machine or read the scrolling captions for the hearing-impaired on your TV screen. The person recording the spoken word at speeds ranging from 180 to 225 words a minute is a judicial reporter. If you're an excellent listener, have strong language and communication skills, and are committed to accuracy and confidentiality, a career in judicial reporting may be a perfect fit for you. *A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. This program is eligible for financial aid only through Lakeshore Technical College.*

FIRST SEMESTER
10-106-104 Realtime Reporting 1	5
10-106-144 Realtime Reporting Orientation	1
10-106-159 Legal Terminology	1
10-106-184 English for Realtime Reporters	1
10-106-804 Realtime Reporting 1 Lab	1
10-801-136 English Composition 1	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER
10-106-105 Realtime Reporting II	5
10-106-158 Realtime Reporting Technology	2
10-106-805 Realtime Reporting II Lab	1
10-801-196 Oral/Interpersonal Comm	3
OR	
10-801-198 Speech	3
10-809-172 Race Ethnic & Diversity	3
OR	
10-809-122 Intro to Amer Government	3
10-809-196 Intro to Sociology	3

SUMMER SEMESTER
10-106-108 Realtime Reporting Speed Dev	2

THIRD SEMESTER
10-106-109 Literary I	2
10-106-128 Jury Charge I	2
10-106-156 Testimony I	3
10-106-809 Literary I Lab	1
10-106-828 Jury Charge I Lab	1
10-106-859 Testimony I Lab	1
10-809-195 Economics	3
OR	
10-809-144 Macroeconomics *(only offered at LTC)*	3
10-804-123 Math w Business Apps	3
OR	
10-804-107 College Mathematics	3
OR	
10-806-112 Principles of Sustainability	3

FOURTH SEMESTER
10-106-111 Literary II	2
10-106-129 Jury Charge II	2
10-106-142 Judicial Reporting Procedures	2
10-106-143 Judicial Reporting Internship	1
10-106-157 Testimony II	3
10-106-171 Medical Reporting/Terminology	2
10-106-811 Literary II Lab	1
10-106-829 Jury Charge II Lab	1
10-106-857 Testimony II Lab	1
TOTAL PROGRAM CREDITS	**65**

BEGINNING COURSES REQUIRED PRIOR TO ADVANCED COURSES:
10-106-121, Jury Charge 1 - Beginner
10-106-122, Jury Charge 2 - Beginner
10-106-113, Literary 1 - Beginner
10-106-114, Literary 2 - Beginner
10-106-153, Testimony 1 - Beginner
10-106-154, Testimony 2 - Beginner

Paralegal

Paralegals perform work under the supervision of a lawyer in a variety of settings – a private law firm, insurance company, corporation, bank, private business, legal clinic, government agency, legal aid office, law department, special interest group, public defender's office, prosecutor's office, service company, or consulting firm. The Paralegal program is approved by the American Bar Association and is also a member of the American Association for Paralegal Education.

FIRST SEMESTER
10-110-101 Paralegal Intro/Legal Ethics	3
10-801-136 English Composition 1	3
10-801-196 Oral/Interpersonal Comm	3
10-804-107 College Mathematics	3
10-809-103 Think Critically & Creatively	3

SECOND SEMESTER
10-101-106 Accounting-for Non-Accountants	3
10-102-100 Bus and Info Tech Occup Prep	1
10-110-102 Civil Litigation I	3
10-110-104 Legal Research	3
10-110-110 Real Estate Law	3
(or choice below)	
10-110-175 Legal Computer Applications	3

THIRD SEMESTER
10-110-103 Civil Litigation II	3
10-110-106 Law-Family	3
(or choice below)	
10-110-107 Legal Aspects/Business Org	3
10-110-114 Administration of Estates	3
(or choice below)	
10-809-199 Psychology Of Human Relations	3
OR	
10-809-198 Intro to Psychology	3
Elective	3

FOURTH SEMESTER
10-110-105 Legal Writing	3
10-110-160 Law-Employment	3
(or choice below)	
10-110-199 Paralegal Internship Practicum	2
OR	
10-110-197 Paralegal Field Research	2
10-809-166 Intro to Ethics: Theory & App	3
10-809-172 Race Ethnic & Diversity	3
10-809-195 Economics	3
TOTAL PROGRAM CREDITS	**66**

Students must take 4 of 8 legal specialty courses below:
10-110-106 Family Law; 10-110-110 Real Estate Law
10-110-114 Administration of Estates;10-110-115 Administrative Law
10-110-122 Creditor/Debtor Relations; 10-110-160 Employment Law
10-110-168 Paralegal Criminal Procedures; 10-110-169 Indian Law

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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Paramedic – Emergency Medical Technician

Paramedic – Emergency Medical Technician graduates are prepared to perform emergency patient care and advanced life support in the pre-hospital setting, transporting injured and ill patients to hospital emergency departments. Graduates of this program will have the potential for employment on board paramedic level ambulance services in the public (fire department-based) or private sector, or in hospital emergency departments as emergency technicians.

FIRST SEMESTER

30-531-321 Paramedic Clinical 1	4
30-531-324 Paramedic Lab 1	2
30-531-330 Paramedic Principles 1A	3
30-531-331 Paramedic Principles 1B	3

SECOND SEMESTER

30-531-323 Paramedic Clinical 2	4
30-531-325 Paramedic Lab 2	2
30-531-332 Paramedic Principles 2A	3
30-531-333 Paramedic Principles 2B	3
TOTAL PROGRAM CREDITS	24

MANUFACTURING

▶ Applied Engineering Technology
▶ Automation Engineering Technology
▶ Electro-Mechanical Technology
▶ Electronics (with optional biomedical specialty)
▶ Industrial Mechanic
▶ Machine Tool – CNC Technician
▶ Machine Tool Operation
▶ Machine Tooling Technics (Tool and Die Making)
▶ Manufacturing Engineering Technology
▶ Marine Construction
▶ Marine Engineering Technology
▶ Prototype and Design
▶ Welding

Applied Engineering Technology

In today's competitive environment, there is a need for technicians and team members with specialized skills in a variety of manufacturing areas including safe work practices, electromechanical, the manufacturing process, communication and performance in teams, lean manufacturing, business ethics, and finance. As an Applied Engineering Technology graduate, you'll be prepared for entry-level process team member or operator careers.

FIRST SEMESTER

10-420-171 Machine Tool Processes 1	1
10-442-150 Machine Fabrication 1	1
10-449-111 Manufacturing Safety	3
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-620-105 Rigging Systems 1	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-801-136 English Composition 1	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-196-199 Business Ethics	3
10-420-172 Machine Tool Processes 2	1
10-442-151 Machine Fabrication 2	1
10-623-156 Manufacturing Processes	2
10-664-102 Automation 3: PLC	1
10-804-118 Interm Algebra w Apps	4
10-809-195 Economics	3
Elective	2

THIRD SEMESTER

10-196-189 Team Building/Prob Solve	3
10-620-121 Mechanics 1: Basic	1
10-620-122 Mechanics 2: Intermediate	1
10-620-140 Machine Wiring and Safety	1
10-605-158 Power Electronics 2: Drives	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-660-104 DC 1: Introduction	1
10-801-197 Technical Reporting	3
10-806-143 College Physics 1	3

FOURTH SEMESTER

10-101-184 Business Finance/Budgeting	3
10-182-110 Lean Operations Mgmt	3
10-623-157 Process Instrumentation	3
10-809-103 Think Critically & Creatively	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	64

Automation Engineering Technology

As a graduate of the Automation Engineering Technology program, you'll be ready to work with integrated machine systems that involve industrial automation, robotics, mechanics, computers, industrial communications and/or electronics technology. Your potential career opportunities include controls designer, automation technician, controls technician, engineering technician, controls engineer in training, and automation engineer in training.

FIRST SEMESTER

10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-620-140 Machine Wiring and Safety	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-804-118 Interm Algebra w Apps	4
10-809-198 Intro to Psychology	3
Elective	1

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

SECOND SEMESTER

10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-110 Electronics 1: Diodes-Basic	1
10-660-111 Electronics 2: Trans-Basic	1
10-664-102 Automation 3: PLC	1
10-664-103 Automation 4: PLC	1
10-664-104 Automation 5: PLC	1
10-804-196 Trigonometry w Apps	3
10-806-143 College Physics 1	3
Elective	1

THIRD SEMESTER

10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-606-109 Automation CAD 1	1
10-606-110 Automation CAD 2	1
10-620-159 Power Electronics 3: Drives	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-664-105 Automation 6: PLC	1
10-664-151 Automation 8: HMI	1
10-664-152 Automation 9: HMI	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-664-162 Control 3: Motion Systems	1
10-801-136 English Composition 1	3

FOURTH SEMESTER

10-620-170 Robotics - Introduction to	1
10-664-150 Automation 7: PLC	1
10-664-153 Automation 10: Network	1
10-664-163 Control 4: Drive Performance	1
10-664-164 Control 5: Servo Systems	1
10-664-165 Control 6: Servo Systems	1
10-664-189 Automation Systems Integration	3
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**62**

Electro-Mechanical Technology

Electro-mechanical technicians maintain and repair electro-mechanical equipment including drive systems, position sensors, cabling, and automatic production equipment; work with mechanical and/or electrical engineers to install and evaluate electro-mechanical systems; and build mock-ups of production equipment. As a graduate of the two-year Electro-Mechanical Technology associate degree, you're prepared for the electro-mechanical technician career as well as a number of other related professions – automated equipment technician, electronics technician, field service technician, fluid power technician, and installation technician.

FIRST SEMESTER

10-420-171 Machine Tool Processes 1	1
10-442-150 Machine Fabrication 1	1
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-660-104 DC 1: Introduction	1

10-660-105 DC 2: Circuits	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-804-118 Interm Algebra w Apps	4
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-420-172 Machine Tool Processes 2	1
10-442-151 Machine Fabrication 2	1
10-620-140 Machine Wiring and Safety	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-110 Electronics 1: Diodes-Basic	1
10-664-102 Automation 3: PLC	1
10-664-103 Automation 4: PLC	1
10-664-104 Automation 5: PLC	1
10-804-196 Trigonometry w Apps	3
10-806-143 College Physics 1	3

THIRD SEMESTER

10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-121 Mechanics 1: Basic	1
10-620-122 Mechanics 2: Intermediate	1
10-620-123 Mechanics 3: Systems	1
10-620-159 Power Electronics 3: Drives	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-664-105 Automation 6: PLC	1
10-664-151 Automation 8: HMI	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-664-162 Control 3: Motion Systems	1
10-801-136 English Composition 1	3

FOURTH SEMESTER

10-620-105 Rigging Systems 1	1
10-620-166 Fluids 4: Advanced Hydraulics	1
10-620-170 Robotics - Introduction to	1
10-620-189 Machine Integrated Techniques	3
10-664-163 Control 4: Drive Performance	1
10-664-164 Control 5: Servo Systems	1
10-664-165 Control 6: Servo Systems	1
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**64**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to www.nwtc.edu/programs

Electronics
(with optional Biomedical specialty)

Featuring two tracks, the Electronics (with optional Biomedical specialty) associate degree allows students to prepare for a career in biomedical or general electronics. Choose the biomedical track to prepare for a position as a technician for hospitals or medical equipment manufacturers. Choose the general electronics track to gain skills in operating, testing, maintaining, and troubleshooting electronic equipment and work with research and design engineers. Program graduates are prepared for careers such as electronic development technician, electronic maintenance technician, electronic test technician, electronics technician, and field service technician.

ALL STUDENTS COMPLETE FIRST SEMESTER

10-660-100 Electronic Fabrication - Intro	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-103 Digital 3: Registers	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-660-106 DC 3: Circuit Theorems	1
10-804-118 Interm Algebra w Apps	4
10-809-198 Intro to Psychology	3

ELECTRONICS TECHNOLOGY FIRST SEMESTER

10-620-140 Machine Wiring and Safety	1
10-809-166 Intro to Ethics: Theory & App	3

BIOMEDICAL TECHNOLOGY FIRST SEMESTER

10-806-134 General Chemistry	4

ALL STUDENTS COMPLETE SECOND SEMESTER

10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-109 AC 3: RLC Circuits	1
10-660-110 Electronics 1: Diodes-Basic	1
10-660-111 Electronics 2: Trans-Basic	1
10-660-112 Electronics 3: Op-Amps-Basic	1
10-660-113 Digital 4: ALU	1
10-660-114 Digital 5: Characteristics	1
10-804-196 Trigonometry w Apps	3
10-809-172 Race Ethnic & Diversity	3

ELECTRONICS TECHNOLOGY SECOND SEMESTER

Elective	3

BIOMEDICAL TECHNOLOGY SECOND SEMESTER

10-501-101 Medical Terminology	3

ALL STUDENTS COMPLETE THIRD SEMESTER

10-605-160 Linear Electronics 1: BJT Amps	1
10-605-161 Linear Electronics 2: JFET Amp	1
10-605-162 Linear Electronics 3: Filters	1
10-605-163 Micro 1: Introduction	1
10-605-164 Micro 2: Technique	1
10-605-165 Micro 3: Interfaces	1
10-605-170 Datacomm 1: Introduction	1
10-605-171 Datacomm 2: Pulse Code Mod	1
10-605-172 Datacomm 3: Delta Modulation	1
10-801-136 English Composition 1	3

ELECTRONICS TECHNOLOGY THIRD SEMESTER

10-806-143 College Physics 1	3

BIOMEDICAL TECHNOLOGY THIRD SEMESTER

10-806-189 Basic Anatomy	3

ALL STUDENTS COMPLETE FOURTH SEMESTER

10-605-166 Micro 4: Advanced Interfacing	1
10-605-167 Micro 5: Intermediate	1
10-605-168 Micro 6: Advanced	1
10-605-174 Datacomm 5: Fiber Optics-Intro	1
10-605-175 Datacomm 6: Fiber Optics-Adv	1
10-605-180 Analog Comm 1: Noise Effects	1
10-605-181 Analog Comm 2: AM/SSB	1
10-605-182 Analog Comm 3: FM Systems	1
10-801-197 Technical Reporting	3
10-809-195 Economics	3

ELECTRONICS TECHNOLOGY FOURTH SEMESTER

10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-159 Power Electronics 3: Drives	1
10-605-173 Datacomm 4: Digital Modulation	1

BIOMEDICAL TECHNOLOGY FOURTH SEMESTER

10-605-106 Biomed Electronics 1	1
10-605-107 Biomed Electronics 2	1
10-605-108 Biomed Electronics 3	1
10-605-109 Biomed Electronics 4	1
TOTAL PROGRAM CREDITS	**68**

Industrial Mechanic

The complex machines in today's manufacturing environments need highly skilled industrial mechanics to install, repair, and maintain the operating condition of industrial production and processing machinery. As a graduate of the Industrial Mechanic technical diploma, you are prepared to evaluate machine performance, identify trouble areas, and repair systems. Typical careers in this field include industrial or maintenance mechanic, machine adjuster, machine assembler, machinery erector, and machinery repairer.

FIRST SEMESTER

10-804-101 Math 1-Trades	2
31-420-314 Machine Shop-Basic	4
31-421-355 Blueprint Rdg/Sket-Indus	2
31-462-305 Mechanic 1-Industrial	5
31-462-306 Mechanic 2-Industrial	5

SECOND SEMESTER

31-442-365 Welding-Industrial	3
31-462-307 Mechanic 3-Industrial	5
31-462-308 Mechanic 4-Industrial	5
31-462-356 Hydraulics-Industrial	2
31-801-385 Communicating-Writing	1
TOTAL PROGRAM CREDITS	**34**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Machine Tool Operation

In the one-year Machine Tool Operation program, you learn to operate machine tools such as engine lathes, milling machines, drill presses, and computer numerical controlled machines. Upon graduation, you have the skills needed to become a CNC operator, machine set-up operator, machine tool operator, machinist, and maintenance mechanic. You may also choose to further your career options by continuing with a second-year Machine Tool program – Machine Tool – CNC Technician or Machine Tool Technics.

FIRST SEMESTER	
10-103-111 Micro: Windows-Intro	1
10-804-101 Math 1-Trades	2
31-420-336 Intro to CNC Milling Operation	1
31-420-337 Intro to G-Code and CAM 1	2
31-420-345 Machine Shop 1	4
31-420-346 Machine Shop 2	4
31-420-348 Precision Measurement	1
31-420-358 CNC Set-Ups	1
31-421-352 Blueprint Rdg/Sket-Mach 1	2
SECOND SEMESTER	
10-804-102 Math 2-Trades	1
31-420-347 Cutting Tool Technology	1
31-420-349 G-Code and CAM 2	3
31-420-356 Machine Shop 3	4
31-420-357 Machine Shop 4	4
31-421-362 Blueprint Rdg/Sket-Mach 2	2
31-422-359 Metallurgy for Machinist	1
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**35**

Machine Tool – CNC Technician

As a computer numerical control technician/programmer operator, you play an important role in today's modern manufacturing environments. You set up and operate computer numerical controlled machine tools, working from blueprints and set-up sheets. You set up fixturing and tooling, produce and inspect parts, and edit CNC programs on CNC lathes and machining centers. As a graduate of the Machine Tool – CNC Technician program, you're also prepared for a career as a jig and fixture apprentice/trainee, a machinist apprentice/trainee, or a manufacturing engineering technician. With additional education and/or work experience, you may become a journey level machinist, pattern maker, mold maker, tool and die maker, CNC programmer, or machine shop foreperson/supervisor.

FIRST SEMESTER	
10-103-111 Micro: Windows-Intro	1
10-804-101 Math 1-Trades	2
31-420-336 Intro to CNC Milling Operation	1
31-420-337 Intro to G-Code and CAM 1	2
31-420-345 Machine Shop 1	4
31-420-346 Machine Shop 2	4
31-420-348 Precision Measurement	1
31-420-358 CNC Set-Ups	1
31-421-352 Blueprint Rdg/Sket-Mach 1	2
SECOND SEMESTER	
10-804-102 Math 2-Trades	1
31-420-347 Cutting Tool Technology	1
31-420-349 G-Code and CAM 2	3
31-420-356 Machine Shop 3	4
31-420-357 Machine Shop 4	4
31-421-362 Blueprint Rdg/Sket-Mach 2	2
31-422-359 Metallurgy for Machinist	1
31-801-386 Communicating Effectively	1

OUR online, blended, in-person, and other flexible ways of learning WILL FIT YOUR BUSY LIFE.

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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Machine Tool Technics
(Tool and Die Making)

This technical diploma program provides advanced training in machine tool CNC, tool and die, and electrical discharge machining for graduates of the Machine Tool Operation program. Career opportunities for Machine Tool Technics grads include CNC operator, jig and fixture apprentice/trainee, machine set-up operator, machinist apprentice/trainee, maintenance machinist, mold maker apprentice/trainee, tool and cutter grinder, tool and die apprentice/trainee, and electrical discharge machining operator.

FIRST SEMESTER

10-103-111 Micro: Windows-Intro	1
10-804-101 Math 1-Trades	2
31-420-336 Intro to CNC Milling Operation	1
31-420-337 Intro to G-Code and CAM 1	2
31-420-345 Machine Shop 1	4
31-420-346 Machine Shop 2	4
31-420-348 Precision Measurement	1
31-420-358 CNC Set-Ups	1
31-421-352 Blueprint Rdg/Sket-Mach 1	2

SECOND SEMESTER

10-804-102 Math 2-Trades	1
31-420-347 Cutting Tool Technology	1
31-420-349 G-Code and CAM 2	3
31-420-356 Machine Shop 3	4
31-420-357 Machine Shop 4	4
31-421-362 Blueprint Rdg/Sket-Mach 2	2
31-422-359 Metallurgy for Machinist	1
31-801-386 Communicating Effectively	1

THIRD SEMESTER

31-442-361 Welding-Machine Trades	1
32-420-300 Mold Die Construction	4
32-420-301 Tool Making	4
32-420-302 Mold Die Design	2
32-420-303 Tooling Design	2
32-420-308 Metrology	1
32-420-337 3D CAM Programming	3

FOURTH SEMESTER

10-809-195 Economics	3
32-420-304 Stamping Die Design	2
32-420-305 Machine Applications-Advanced	4
32-420-306 Stamping Die Construction	4
32-420-307 Machining Theory-Advanced	2
32-420-342 Multi-Axis CAM Programming	2
TOTAL PROGRAM CREDITS	**69**

Manufacturing Engineering Technology

Professionals are needed in the manufacturing industry to assist engineering and management in the design and development of new products and in the improvement of production processes. As a Manufacturing Engineering Technology associate degree graduate, you're prepared for a career as a technologist in manufacturing engineering, industrial engineering, productivity improvement, or continuous improvement. **This unique program transfers into University of Wisconsin-Stout's Bachelor of Science degree in Manufacturing Engineering offered in Green Bay on the NWTC campus.**

This degree serves as the first two years of the bachelor's degree in Manufacturing Engineering from UW-Stout.

FIRST SEMESTER

10-623-170 Engineering Materials - Intro	3
10-801-136 English Composition I	3
10-804-197 College Algebra & Trig w Apps	5
10-806-135 College Chemistry	5

SECOND SEMESTER

10-606-113 CAD	2
10-620-170 Robotics - Intro to	
10-623-171 Polymer Composite Processes	3
10-623-175 Casting and Joining Processes	3
10-801-198 Speech	3
10-804-198 Calculus I	4

SUMMER SEMESTER

10-623-166 Manufacturing Engr Internship	1

THIRD SEMESTER

10-420-170 Material Removal/Forming	3
10-606-126 Geometric Dimension/Toleran	2
10-606-157 Solidworks Fund and Drawings	2
10-806-286 Calculus Based Physics 1	5
10-809-172 Race Ethnic & Diversity	3
10-809-198 Intro to Psychology	3

FOURTH SEMESTER

10-420-168 Computer Aided Manufacturing	3
10-623-167 Engineering Economy	2
10-623-169 Lean Manufacturing Systems 1	2
10-623-173 Engineering Mechanics	3
10-664-102 Automation 3: PLC	1
10-664-103 Automation 4: PLC	1
10-664-104 Automation 5: PLC	1
10-804-181 Calculus II	4
TOTAL PROGRAM CREDITS	**68**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Marine Construction

As a graduate of the Marine Construction program, you're equipped for a career in the growing marine manufacturing industry. Program students will gain an understanding of marine specific safety standards, marine terminology, marine construction and ship building practices, for both the welding and electrical trades. Careers in marine construction include marine welder, ship fitter, marine pipefitter, and marine construction electrician.

ALL STUDENTS COMPLETE FIRST SEMESTER

10-442-102 Intro to Marine Production	3
10-448-210 Intro to Marine-Basic	1
31-421-334 Blueprint Reading I	2
OR	
31-421-355 Blueprint Rdg/Sket-Indus	2
31-442-301 Welding-Cutting/Visual	1
31-449-301 Electrical Safety	1

MARINE *WELDING* FIRST SEMESTER

10-804-101 Math 1-Trades	2
31-442-317 Welding-Gas Metal Arc	5
31-442-335 Metal Fabrication I	3

MARINE *ELECTRICAL* FIRST SEMESTER

31-804-312 Math Algebra Trades	1
31-448-364 Marine Electrical Codes	1
31-413-314 DC Circuits	2
31-413-334 AC Circuits	2
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
Elective	2

ALL STUDENTS COMPLETE SECOND SEMESTER

31-421-333 Blueprint Reading II	2
OR	
31-421-362 Blueprint Rdg/Sket-Mach II	2
31-422-310 Metallurgy	2
31-448-363 Introduction to Marine Composites	3

MARINE *WELDING* SECOND SEMESTER

31-448-362 Marine Welding	3
31-442-321 Welding-Gas Tungsten Arc	5
31-442-334 Metal Fabrication II	2

MARINE *ELECTRICAL* SECOND SEMESTER

31-413-327 Commercial Wiring Tech	2
31-413-328 Motors/Transformers	2
31-413-339 Industrial Controls	3
31-314-349 Electric Motor Control	3

ALL STUDENTS COMPLETE THIRD SEMESTER

10-103-111 Micro: Windows-Intro	1
10-182-111 Lean Operations	1
10-196-189 Team Building/Prob Solve	3
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**41**

Marine Engineering Technology

Marine manufacturing – including shipbuilding, yacht building, and major component manufacturing – employs thousands of people in this region, and the industry is growing. Highly-skilled marine engineering technicians are needed to design the vital marine systems for the industry. Other career opportunities include mechanical design technician, mechanical drafter, and electro-mechanical designer. With additional education and/or work experience, you may become a naval architect, marine engineer, project engineer, or lead designer.

FIRST SEMESTER

10-442-102 Intro to Marine Production	3
10-448-210 Intro to Marine-Basic	1
10-606-113 CAD	2
10-606-157 Solidworks Fund and Drawings	2
10-614-113 2D Essentials	2
10-801-196 Oral/Interpersonal Comm	3
10-804-196 Trigonometry w Apps	3

SECOND SEMESTER

10-442-153 Prototype Metal Fabrication	2
10-606-103 2D CAD - Advanced	3
10-606-122 CAD-Fabrication & Assembly	2
10-606-126 Geometric Dimension/Toleran	2
10-804-195 College Algebra w Apps	3
10-806-154 General Physics 1	4

THIRD SEMESTER

10-448-204 Naval Architecture I	3
10-448-206 Ship Constructor	3
10-606-135 Machine Members-Strength	5
10-606-158 Solidworks Advanced	3
10-620-100 Fluids 1: Basic Pneumatics	1
10-809-199 Psychology Of Human Relations	3

FOURTH SEMESTER

10-448-205 Naval Architecture II	3
10-606-141 Design Problems	3
10-606-159 Materials Science	3
10-620-101 Fluids 2: Basic Hydraulics	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-801-136 English Composition 1	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**67**

Prototype and Design

Highly-skilled professionals are needed in the design and engineering industry to build a variety of three-dimensional prototypes and models for use in manufacturing automobiles, toys, and other products. These professionals may also build three-dimensional models used for architecture design, mechanical design, litigation, props, special effects, and the entertainment industry. Graduates of the Prototype and Design program are skilled in model making, welding, CNC machining, industrial design, problem solving, and critical thinking. Career opportunities include product development, prototype model builder, engineering design, architectural model builder, legal model builder, props and special effects model builder, and pattern and mold maker.

FIRST SEMESTER
10-420-151	Prototype Machine Tool	3
10-606-113	CAD	2
10-614-113	2D Essentials	2
10-614-152	Prototyping-Introduction to	5
10-801-196	Oral/Interpersonal Comm	3
10-804-107	College Mathematics	3

SECOND SEMESTER
10-442-153	Prototype Metal Fabrication	2
10-606-162	Solidworks Fundamentals	1
10-606-163	Solidworks-Intermediate	1
10-606-166	SolidWorks Loft/Surface	1
10-614-122	Prototype Design	3
10-614-124	Design Visualization	5
10-804-118	Interm Algebra w Apps	4

THIRD SEMESTER
10-614-134	Engineering Models	5
10-614-138	CNC Machining-Adv	3
10-614-176	Model Finishing	3
10-801-136	English Composition I	3
10-809-172	Race Ethnic & Diversity	3

FOURTH SEMESTER
10-614-143	Prototyping Solutions Advanced OR	5
10-614-139	Prototype & Design Internship	5
10-614-154	Current Prototyping Processes	3
10-614-174	Models-Machine	2
10-809-166	Intro to Ethics: Theory & App	3
10-809-198	Intro to Psychology	3
	TOTAL PROGRAM CREDITS	68

Welding

As a Welding graduate, you can build and repair metal components using major welding processes used by industry. You have knowledge of blueprints, metallurgy and layout, and can weld to AWS and ASME codes. Typical careers include maintenance welders, qualified welders, structural welders, welder/fabricators and pipe welders. Other career opportunities include construction trades welder, ironworker trades welder, millwright, sheet metal trades welder, and pipe trades welder.

FIRST SEMESTER
10-804-101	Math 1-Trades	2
31-421-334	Blueprint Reading I	2
31-442-301	Welding-Cutting/Visual	1
31-442-316	Welding-Shielded Metal Arc	5
31-442-317	Welding-Gas Metal Arc	5
31-442-335	Metal Fabrication I	3

SECOND SEMESTER
31-421-333	Blueprint Reading II	2
31-422-310	Metallurgy	2
31-442-321	Welding-Gas Tungsten Arc	5
31-442-327	Welding-Flux Core	5
31-442-334	Metal Fabrication II	2
31-801-386	Communicating Effectively	1
	TOTAL PROGRAM CREDITS	35

MARKETING, SALES AND SERVICE
- ▶ Design and Graphic Technology
- ▶ Marketing
- ▶ Supply Chain Management

Design and Graphic Technology

Creative professionals are needed in the business world to produce and print publications, develop advertising concepts, and build graphic elements for websites. As a graduate of the Design and Graphic Technology program, you are ready for a wide variety of careers including desktop publisher, graphic designer, advertising assistant, commercial art worker, digital print technician, layout designer, printing support worker/customer service representative, public relations assistant, pre-press technician, and website designer.

FIRST SEMESTER
10-111-101	Macintosh-Image Editing	3
10-111-103	Macintosh-Intro	1
10-111-120	Macintosh Publishing	3
10-111-161	Macintosh Illustration	3
10-204-110	Publishing Technologies	3
10-809-103	Think Critically & Creatively	3

SECOND SEMESTER
10-111-110	Macintosh Image Editing-Adv	3
10-111-111	Visual Design 1	3
10-111-125	Graphic Reproduction Tech	3
10-111-165	Typography	3
10-152-185	Website Coding	3
10-804-123	Math w Business Apps	3

THIRD SEMESTER
10-102-100	Bus and Info Tech Occup Prep	1
10-104-107	Marketing Comm-Integrated	3
10-111-121	Visual Design 2	3
10-801-136	English Composition 1	3
10-801-196	Oral/Interpersonal Comm	3
10-809-199	Psychology Of Human Relations	3
	Elective	3

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

FOURTH SEMESTER

10-111-143	Graphic Reproduction-Adv	3
10-111-199	Des/Graphic Intern Practicum	2
10-204-126	Digital Print Applications	3
10-809-172	Race Ethnic & Diversity	3
10-809-195	Economics	3
	Elective	3
	TOTAL PROGRAM CREDITS	**70**

Marketing

As a graduate of the Marketing associate degree, you can perform basic marketing functions in industrial, wholesale, retail, and service areas of the business world. You are prepared for positions in sales, promotion, market research, and customer service. Career opportunities include customer service representative, marketing assistant, marketing research assistant, sales promotion coordinator, and sales representative. With additional education and/or work experience, you may become a business owner, customer service manager, insurance agent, marketing manager, promotions manager, real estate salesperson, or sales manager.

FIRST SEMESTER

10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-104-101	Selling Principles	3
10-104-110	Marketing Principles	3
10-104-124	Marketing Presentations	1
10-104-182	Personal Brand-Development	2
10-801-136	English Composition 1	3
10-804-123	Math w Business Apps	3

SECOND SEMESTER

10-103-141	Micro: Access-Intro	1
10-104-107	Marketing Comm-Integrated	3
10-104-191	Customer Service	3
10-104-198	Market Research	3
10-801-198	Speech	3
10-809-199	Psychology Of Human Relations	3

THIRD SEMESTER

10-101-106	Accounting-for Non-Accountants	3
10-102-100	Bus and Info Tech Occup Prep	1
10-104-120	Marketing Info Mgmt	3
10-104-176	Consumer Behavior-Mktg	3
10-809-103	Think Critically & Creatively	3
10-809-195	Economics	3

FOURTH SEMESTER

10-102-150	Business Law & Ethics	3
10-104-119	Social Media Marketing	3
10-104-125	Event Marketing	3
10-104-183	Personal Brand-Portfolio	1
10-104-189	Sales Management	3
10-104-199	Mktg Internship Practicum	2
	OR	
10-104-197	Mktg Field Research	2
10-809-172	Race Ethnic & Diversity	3
	TOTAL PROGRAM CREDITS	**67**

Supply Chain Management

As a graduate of the Supply Chain Management associate degree, you are prepared for careers in all activities involved in the flow of goods – from point of origin to the point of consumption. You are knowledgeable in transportation, inventory control, Lean operations management, purchasing, international trade, customer service, logistics management, enterprise resource planning, and negotiations. Core competencies of the program include planning and organizing, decision making, continuous improvement and problem solving, coordinating and controlling processes and managing the logistics in order to manage a customer's supply chain. Typical careers in this field include claims analyst, customer service representative, dispatcher, inventory analyst, inventory control specialist, logistics technician, materials planner, master production scheduler, purchasing assistant, shipping and receiving specialist, transportation planner/coordinator, and warehouse specialist.

FIRST SEMESTER

10-103-121	Micro: Word-Intro	1
10-103-131	Micro: Excel-Intro	1
10-103-141	Micro: Access-Intro	1
10-103-151	Micro: PowerPoint-Intro	1
10-104-110	Marketing Principles	3
	OR	
10-104-148	Global Marketing	3
10-182-110	Lean Operations Mgmt	3
10-182-157	Logistics/Supply Chain Mgmt	3
10-804-123	Math w Business Apps	3

SECOND SEMESTER

10-101-106	Accounting-for Non-Accountants	3
	OR	
10-101-184	Business Finance/Budgeting	3
10-102-160	Global Business Mgmt	3
10-104-191	Customer Service	3
10-182-127	Purchasing	3
10-182-190	Transportation Mgmt	3
10-801-136	English Composition 1	3

THIRD SEMESTER

10-102-100	Bus and Info Tech Occup Prep	1
10-182-120	Enterprise Resource Plan/Cont	3
10-182-160	Global Supply Chain Mgmt	3
10-801-196	Oral/Interpersonal Comm	3
10-809-166	Intro to Ethics: Theory & App	3
10-809-172	Race Ethnic & Diversity	3

FOURTH SEMESTER

10-102-104	International Business Prac	3
10-182-131	Negotiations	3
10-182-199	Supply Chain Intern Practicum	2
	OR	
10-182-197	Sup Chain Field Research	2
10-809-195	Economics	3
10-809-199	Psychology Of Human Relations	3
	Elective	3
	TOTAL PROGRAM CREDITS	**67**

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College Catalog
2012 - 2013

SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS

- ▶ Applied Engineering Technology
- ▶ Civil Engineering Technology
- ▶ Electrical Engineering Technology
- ▶ Electronics (with optional Biomedical specialty)
- ▶ Environmental Engineering – Waste and Water Technology
- ▶ Manufacturing Engineering Technology
- ▶ Mechanical Design Technology
- ▶ Nuclear Technology
- ▶ Utilities Engineering Technology

Applied Engineering Technology

In today's competitive environment, there is a need for technicians and team members with specialized skills in a variety of manufacturing areas including safe work practices, electromechanical, the manufacturing process, communication and performance in teams, lean manufacturing, business ethics, and finance. As an Applied Engineering Technology graduate, you'll be prepared for entry-level process team member or operator careers.

FIRST SEMESTER

10-420-171 Machine Tool Processes 1	1
10-442-150 Machine Fabrication 1	1
10-449-111 Manufacturing Safety	3
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-620-105 Rigging Systems 1	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-801-136 English Composition 1	3
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-196-199 Business Ethics	3
10-420-172 Machine Tool Processes 2	1
10-442-151 Machine Fabrication 2	1
10-623-156 Manufacturing Processes	2
10-664-102 Automation 3: PLC	1
10-804-118 Interm Algebra w Apps	4
10-809-195 Economics	3
Elective	2

THIRD SEMESTER

10-196-189 Team Building/Prob Solve	3
10-620-121 Mechanics 1: Basic	1
10-620-122 Mechanics 2: Intermediate	1
10-620-140 Machine Wiring and Safety	1
10-605-158 Power Electronics 2: Drives	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-660-104 DC 1: Introduction	1
10-801-197 Technical Reporting	3
10-806-143 College Physics 1	3

FOURTH SEMESTER

10-101-184 Business Finance/Budgeting	3
10-182-110 Lean Operations Mgmt	3
10-623-157 Process Instrumentation	3
10-809-103 Think Critically & Creatively	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**64**

Civil Engineering Technology

Civil Engineering Technology graduates are prepared for careers in the engineering and surveying fields. As a civil engineering technician, you examine and interpret prints and specifications; confer with contractors and owners to enforce contract specifications, building codes, and zoning ordinances; test soils, asphalt, and concrete; perform land surveying and computer aided drafting; and observe building, highway, and utility construction. With additional education and/or work experience, you can become a civil engineer, construction superintendent, building inspector, civil designer, construction projects manager, or registered surveyor.

FIRST SEMESTER

10-606-112 Computer Apps for Technicians	1
10-606-113 CAD	2
10-607-119 Intro to Civil Engr Technology	2
10-607-121 Surveying/Mapping	3
10-607-128 Soil Mechanics	3
10-801-196 Oral/Interpersonal Comm	3
10-804-196 Trigonometry w Apps	3

SECOND SEMESTER

10-607-102 Land Surveying/Computer Appl	1
10-607-110 Cemented Aggregate Mixtures	4
10-607-125 Civil Public Works Construct	2
10-801-136 English Composition I	3
10-804-195 College Algebra w Apps	3
10-806-154 General Physics 1	4

SUMMER SEMESTER

10-607-191 Civil Engineering Internship	1

THIRD SEMESTER

10-607-131 Surveying 2	4
10-607-134 Surveying-Drafting	3
10-607-135 Statics/Strength Matl-Civil	4
10-804-198 Calculus 1	4
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-607-147 Water Technology	3
10-607-151 Highway Surveying	2
10-607-152 Construction Meth/Bldg Syst	2
10-607-153 Global Positioning Systems	2
10-607-154 Land Law I	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**68**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Electrical Engineering Technology

As an Electrical Engineering Technology (EET) graduate, you're skilled in testing, maintaining, and troubleshooting electrical and electronic devices found in machinery, computers, and communication. Typical careers for program grads include electrical/electronic development technician, electrical electronic maintenance technician, electrical test technician, electrical/electronics technician, and field service technician. You may also choose to further your education by pursuing a four-year degree. The EET program consists of two tracks: a transfer track and a general track – the transfer track graduate can transfer to a four-year bachelor's degree program in Electrical Engineering Technology.

ALL STUDENTS COMPLETE FIRST SEMESTER

10-620-140 Machine Wiring and Safety	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-103 Digital 3: Registers	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-660-106 DC 3: Circuit Theorems	1
10-801-136 English Composition 1	3
10-804-196 Trigonometry w Apps	3
10-809-195 Economics	3

ALL STUDENTS COMPLETE SECOND SEMESTER

10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-109 AC 3: RLC Circuits	1
10-660-110 Electronics 1: Diodes-Basic	1
10-660-111 Electronics 2: Trans-Basic	1
10-660-112 Electronics 3: Op-Amps-Basic	1
10-660-113 Digital 4: ALU	1
10-660-114 Digital 5: Characteristics	1
10-660-115 Digital 6: Systems	1
10-801-197 Technical Reporting	3
10-804-195 College Algebra w Apps	3

GENERAL TRACK SECOND SEMESTER

Elective	3

TRANSFER TRACK SECOND SEMESTER

10-806-143 College Physics 1	3

ALL STUDENTS COMPLETE THIRD SEMESTER

10-605-160 Linear Electronics 1: BJT Amps	1
10-605-161 Linear Electronics 2: JFET Amp	1
10-605-162 Linear Electronics 3: Filters	1
10-605-163 Micro 1: Introduction	1
10-605-164 Micro 2: Technique	1
10-605-165 Micro 3: Interfaces	1
10-605-170 Datacomm 1: Introduction	1
10-605-171 Datacomm 2: Pulse Code Mod	1
10-605-172 Datacomm 3: Delta Modulation	1
10-662-112 DC/AC 3	3
10-809-172 Race Ethnic & Diversity	3

GENERAL TRACK THIRD SEMESTER

10-806-143 College Physics 1	3
Elective	1

TRANSFER TRACK THIRD SEMESTER

10-804-198 Calculus 1	4

ALL STUDENTS COMPLETE FOURTH SEMESTER

10-605-166 Micro 4: Advanced Interfacing	1
10-605-167 Micro 5: Intermediate	1
10-605-180 Analog Comm 1: Noise Effects	1
10-605-181 Analog Comm 2: AM/SSB	1
10-605-182 Analog Comm 3: FM Systems	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-662-124 Electronic Circuit Analysis	3
10-809-198 Intro to Psychology	3

GENERAL TRACK FOURTH SEMESTER

10-605-168 Micro 6: Advanced	1
10-620-159 Power Electronics 3: Drives	1
Elective	2

TRANSFER TRACK FOURTH SEMESTER

10-804-181 Calculus II	4
TOTAL PROGRAM CREDITS	**70**

Electronics
(with optional Biomedical specialty)

Featuring two tracks, the Electronics (with optional Biomedical specialty) associate degree allows students to prepare for a career in biomedical or general electronics. Choose the biomedical track to prepare for a position as a technician for hospitals or medical equipment manufacturers. Choose the general electronics track to gain skills in operating, testing, maintaining, and troubleshooting electronic equipment and work with research and design engineers. Program graduates are prepared for careers such as electronic development technician, electronic maintenance technician, electronic test technician, electronics technician, and field service technician.

ALL STUDENTS COMPLETE FIRST SEMESTER

10-660-100 Electronic Fabrication - Intro	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-103 Digital 3: Registers	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-660-106 DC 3: Circuit Theorems	1
10-804-118 Interm Algebra w Apps	4
10-809-198 Intro to Psychology	3

ELECTRONICS TECHNOLOGY FIRST SEMESTER

10-620-140 Machine Wiring and Safety	1
10-809-166 Intro to Ethics: Theory & App	3

BIOMEDICAL TECHNOLOGY FIRST SEMESTER

10-806-134 General Chemistry	4

ALL STUDENTS COMPLETE SECOND SEMESTER

10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-109 AC 3: RLC Circuits	1
10-660-110 Electronics 1: Diodes-Basic	1
10-660-111 Electronics 2: Trans-Basic	1
10-660-112 Electronics 3: Op-Amps-Basic	1
10-660-113 Digital 4: ALU	1
10-660-114 Digital 5: Characteristics	1
10-804-196 Trigonometry w Apps	3
10-809-172 Race Ethnic & Diversity	3

ELECTRONICS TECHNOLOGY SECOND SEMESTER

Elective	3

Electronics (with optional Biomedical specialty)
continued on next page...

Electronics (with optional Biomedical specialty)
continued ...

BIOMEDICAL TECHNOLOGY SECOND SEMESTER
10-501-101 Medical Terminology	3

ALL STUDENTS COMPLETE THIRD SEMESTER
10-605-160 Linear Electronics 1: BJT Amps	1
10-605-161 Linear Electronics 2: JFET Amp	1
10-605-162 Linear Electronics 3: Filters	1
10-605-163 Micro 1: Introduction	1
10-605-164 Micro 2: Technique	1
10-605-165 Micro 3: Interfaces	1
10-605-170 Datacomm 1: Introduction	1
10-605-171 Datacomm 2: Pulse Code Mod	1
10-605-172 Datacomm 3: Delta Modulation	1
10-801-136 English Composition 1	3

ELECTRONICS TECHNOLOGY THIRD SEMESTER
10-806-143 College Physics 1	3

BIOMEDICAL TECHNOLOGY THIRD SEMESTER
10-806-189 Basic Anatomy	3

ALL STUDENTS COMPLETE FOURTH SEMESTER
10-605-166 Micro 4: Advanced Interfacing	1
10-605-167 Micro 5: Intermediate	1
10-605-168 Micro 6: Advanced	1
10-605-174 Datacomm 5: Fiber Optics-Intro	1
10-605-175 Datacomm 6: Fiber Optics-Adv	1
10-605-180 Analog Comm 1: Noise Effects	1
10-605-181 Analog Comm 2: AM/SSB	1
10-605-182 Analog Comm 3: FM Systems	1
10-801-197 Technical Reporting	3
10-809-195 Economics	3

ELECTRONICS TECHNOLOGY FOURTH SEMESTER
10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-159 Power Electronics 3: Drives	1
10-605-173 Datacomm 4: Digital Modulation	1

BIOMEDICAL TECHNOLOGY FOURTH SEMESTER
10-605-106 Biomed Electronics 1	1
10-605-107 Biomed Electronics 2	1
10-605-108 Biomed Electronics 3	1
10-605-109 Biomed Electronics 4	1
TOTAL PROGRAM CREDITS	**68**

▶ NEW PROGRAM!
Environmental Engineering – Waste and Water Technology

This associate degree program is designed to meet the need for environmental engineering technicians in Northeast Wisconsin. As a program grad, you're equipped with skills in analyzing, testing, and monitoring air, water, and solid waste to ensure environmental protection and compliance while maintaining community health and safety. Typical careers include environmental engineering technician, water and waste water treatment plant and system operator, water resource specialist, and recycling coordinator.

FIRST SEMESTER
10-506-146 Intro to Environmental Science	3
10-506-147 Environmental Biology	4
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-804-118 Interm Algebra w Apps	4
10-806-134 General Chemistry	4

SECOND SEMESTER
10-506-149 Intro to Environ. Compliance	3
10-506-148 Environmental Chem Analysis	4
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-620-165 Fluids 3: Inter Hydraulics	1
10-801-136 English Composition 1	3
10-809-195 Economics	3

THIRD SEMESTER
10-506-150 Environmental Bacteriology	3
10-506-151 Water & Wastewater Oper & Mgmt	4
10-506-152 Ind. Safety & Emerg. Response	3
10-620-121 Mechanics 1: Basic	1
10-620-122 Mechanics 2: Intermediate	1
10-620-123 Mechanics 3: Systems	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-801-197 Technical Reporting	3

FOURTH SEMESTER
10-506-153 Solid and Hazardous Waste	4
10-506-154 Air Pollution Control Systems	3
10-506-155 Water & Wastewater Analysis	4
10-809-172 Race Ethnic & Diversity	3
10-809-198 Intro to Psychology	3
TOTAL PROGRAM CREDITS	**68**

Manufacturing Engineering Technology

Professionals are needed in the manufacturing industry to assist engineering and management in the design and development of new products and in the improvement of production processes. As a Manufacturing Engineering Technology associate degree graduate, you're prepared for a career as a technologist in manufacturing engineering, industrial engineering, productivity improvement, or continuous improvement. This unique program transfers into University of Wisconsin-Stout's Bachelor of Science degree in Manufacturing Engineering offered in Green Bay on the NWTC campus. *This degree serves as the first two years of the bachelor's degree in Manufacturing Engineering from UW-Stout.*

FIRST SEMESTER
10-623-170 Engineering Materials - Intro	3
10-801-136 English Composition I	3
10-804-197 College Algebra & Trig w Apps	5
10-806-135 College Chemistry	5

SECOND SEMESTER
10-606-113 CAD	2
10-620-170 Robotics - Intro to	
10-623-171 Polymer Composite Processes	3
10-623-175 Casting and Joining Processes	3
10-801-198 Speech	3
10-804-198 Calculus I	4

SUMMER SEMESTER
10-623-166 Manufacturing Engr Internship	1

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

THIRD SEMESTER

10-420-170 Material Removal/Forming		3
10-606-126 Geometric Dimension/Toleran		2
10-606-157 Solidworks Fund and Drawings		2
10-806-286 Calculus Based Physics 1		5
10-809-172 Race Ethnic & Diversity		3
10-809-198 Intro to Psychology		3

FOURTH SEMESTER

10-420-168 Computer Aided Manufacturing		3
10-623-167 Engineering Economy		2
10-623-169 Lean Manufacturing Systems 1		2
10-623-173 Engineering Mechanics		3
10-664-102 Automation 3: PLC		1
10-664-103 Automation 4: PLC		1
10-664-104 Automation 5: PLC		1
10-804-181 Calculus II		4
TOTAL PROGRAM CREDITS		**68**

Mechanical Design Technology

Mechanical design technicians apply knowledge of mechanical engineering technology to design, develop, and test new or revised machinery. Working primarily on a computer utilizing 2D drafting or 3D modeling programs, you assist product engineers by detailing sections of machine designs. As a graduate of the Mechanical Design Technology program, you're also equipped for such careers as detailer and mechanical drafter. With additional education and/ or work experience, you may also become a product designer, lead designer, project engineer, or technical sales/service representative.

FIRST SEMESTER

10-606-111 Mechanical Design-Exploring		1
10-606-113 CAD		2
10-606-157 Solidworks Fund and Drawings		2
10-614-113 2D Essentials		2
10-801-196 Oral/Interpersonal Comm		3
10-804-118 Interm Algebra w Apps		4
10-809-199 Psychology Of Human Relations		3

SECOND SEMESTER

10-442-153 Prototype Metal Fabrication		2
10-606-103 2D CAD - Advanced		3
10-606-122 CAD-Fabrication & Assembly		2
10-606-126 Geometric Dimension/Toleran		2
10-804-196 Trigonometry w Apps		3
10-806-154 General Physics 1		4

THIRD SEMESTER

10-606-135 Machine Members-Strength		5
10-606-139 CAD-Electrical Control		3
10-606-158 Solidworks Advanced		3
10-606-159 Materials Science		3
10-620-100 Fluids 1: Basic Pneumatics		1
10-620-101 Fluids 2: Basic Hydraulics		1
10-620-165 Fluids 3: Inter Hydraulics		1

FOURTH SEMESTER

10-420-115 CNC-Mechanical Design		3
10-606-141 Design Problems		3
10-606-143 Mechanisms		3
10-801-136 English Composition 1		3
10-809-172 Race Ethnic & Diversity		3
Elective		3
TOTAL PROGRAM CREDITS		**68**

Nuclear Technology

The Nuclear Technology program is designed to respond to today's world and its demand for nuclear technicians. This demand is expected to remain high for years to come. The Nuclear Technology program offers the student a unique opportunity to obtain the specialized training in demand by businesses and organizations licensed to utilize radioactive materials. This program can result in starting salaries higher than many four-year degree programs. It is also an excellent springboard for a four-year degree in the high-demand field of health physics and radiation safety. Initial career opportunities frequently require travel and mobility through subcontracting firms for nuclear power refueling outages.

A Lakeshore Technical College program offered at Northeast Wisconsin Technical College. For information call Toll-free: (888) 385-6982. Some courses in this shared program are only offered at Lakeshore Technical College.

This program is eligible for financial aid only through Lakeshore Technical College.

FIRST SEMESTER

10-620-100 Fluids 1: Basic Pneumatics		1
10-620-101 Fluids 2: Basic Hydraulics		1
10-624-105 Health Physics Calculations		3
10-624-110 Nuclear Technology and Regs		3
10-660-104 DC 1: Introduction		1
10-660-105 DC 2: Circuits		1
10-801-136 English Composition I		3
10-804-118 Interm Algebra w Apps		4

SECOND SEMESTER

10-624-114 Nuclear Systems and Sources		3
10-624-122 Radiation Physics		3
10-624-123 Radiation Physics-Lab		2
10-660-107 AC 1: Properties		1
10-660-108 AC 2: Reactance		1
10-801-196 Oral/Interpersonal Comm		3
10-804-196 Trigonometry w Apps		3

SUMMER SEMESTER

10-624-118 Radiation Biology		3
10-806-134 General Chemistry		4

THIRD SEMESTER

10-624-132 Radiological Emergencies		2
10-624-133 Radioactive Material Managemen		2
10-624-134 Radiation Shielding		2
10-624-135 Radiation Shield-Lab		1
10-624-149 Reactor Plant Components		4
10-806-154 General Physics I		4
10-809-197 Contemporary Amer Society		3

FOURTH SEMESTER

10-624-140 Radiochemistry		2
10-624-145 Applied Health Physics		3
10-624-156 Nuclear Technology Internship		2
OR		
10-624-146 Applied Health Physics-Lab		2
10-809-198 Intro to Psychology		3

SUMMER SEMESTER

10-624-148 Reactor Theory and Operations		3
TOTAL PROGRAM CREDITS		**71**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Utilities Engineering Technology

As a graduate of the Utilities Engineering Technology associate degree, you're prepared for careers in the utility industry, from power generation through transmission and distribution. Technicians in this field work on the equipment and systems that keep energy flowing safely and reliably from source to use. Typical careers include relay technologist, systems control and relay technician, substation technician, distribution systems designer, and power plant instrument technician.

FIRST SEMESTER

10-614-113 2D Essentials	2
10-620-100 Fluids 1: Basic Pneumatics	1
10-620-101 Fluids 2: Basic Hydraulics	1
10-660-101 Digital 1: Logic	1
10-660-102 Digital 2: Sequential	1
10-660-104 DC 1: Introduction	1
10-660-105 DC 2: Circuits	1
10-660-106 DC 3: Circuit Theorems	1
10-664-100 Automation 1: Control Logic	1
10-664-101 Automation 2: Motor Control	1
10-804-118 Interm Algebra w Apps	4
10-809-198 Intro to Psychology	3

SECOND SEMESTER

10-442-100 Metal Fabrication 1	2
10-468-100 Utility Safety	2
10-660-107 AC 1: Properties	1
10-660-108 AC 2: Reactance	1
10-660-109 AC 3: RLC Circuits	1
10-660-110 Electronics 1: Diodes-Basic	1
10-664-102 Automation 3: PLC	1
10-664-103 Automation 4: PLC	1
10-664-104 Automation 5: PLC	1
10-804-196 Trigonometry w Apps	3
10-806-143 College Physics 1	3

THIRD SEMESTER

10-468-101 Utility Power Systems Coor	3
10-468-105 Utility Generation Systems	2
10-605-157 Power Electronics 1: Devices	1
10-605-158 Power Electronics 2: Drives	1
10-620-159 Power Electronics 3: Drives	1
10-620-161 Power Electricity 1: Motors	1
10-620-162 Power Electricity 2: Motors	1
10-664-160 Control 1: Discrete Systems	1
10-664-161 Control 2: Process Systems	1
10-664-162 Control 3: Motion Systems	1
10-801-136 English Composition 1	3

FOURTH SEMESTER

10-468-102 Utility Project Execution	3
10-468-103 Utility Systems Maintenance	3
10-468-104 Utility Systems-Natural Gas	3
10-606-113 CAD	2
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3
TOTAL PROGRAM CREDITS	**68**

TRANSPORTATION, DISTRIBUTION AND LOGISTICS

▶ Auto Collision Repair and Refinishing Technician
▶ Auto Collision Repair and Refinishing Technology
▶ Automotive Technician
▶ Automotive Technology
▶ Diesel and Heavy Equipment Technician
▶ Diesel Equipment Technology
▶ Supply Chain Management

Auto Collision Repair and Refinishing Technician

The high-tech vehicles on today's roadways call for highly-skilled vehicle repair and refinish technicians. The Auto Collision Repair and Refinishing Technician technical diploma program prepares students to repair and refinish damaged bodies and parts of automobiles and light trucks. Emphasis is on technical training for repairing and replacing vehicle panels and automotive glass; analyzing and straightening frame and unibody damage; welding, diagnosing electronics; repairing plastics and composite materials; and refinishing. Typical careers include auto collision repair technician, auto collision refinishing technician, frame and alignment technician, unibody repair specialist, and trim and glass installer.

AUTO COLLISION REFINISHING FIRST SERIES

10-405-101 Intro to Auto Refinishing	2
10-405-106 Plastics & Composites	1
10-405-107 Coll Refinish Surface Prep	2
10-405-108 Collision Refinish Topcoat App	3
10-804-107 College Mathematics	3
31-801-386 Communicating Effectively	1

AUTO COLLISION REFINISHING SECOND SERIES

10-405-109 Refinishing Tinting & Blending	2
10-405-110 Collision Refinishing-Advanced	3
10-405-147 Auto Refinish Prod Emmissions	1
10-809-166 Intro to Ethics: Theory & App	3
10-809-197 Contemporary Amer Society	3
31-801-385 Communicating-Writing	1
32-405-320 Auto Collision Ind Shadow	1

AUTO COLLISION REPAIR FIRST SERIES

10-405-100 Intro to Collision Repair	2
10-405-102 Collision Repair Non Struct 1	2
10-405-103 Collision Repair Non Struct 2	2
10-405-104 Collision Repair Non Struct 3	2
10-405-105 Collision Repair Non Struct 4	2
10-405-114 Collision Repair Estimating	1
10-405-120 Collision Repair Mech - HVAC	2
10-405-128 Collision Repair Elec Sys-SRS	1
10-405-144 Collision Repair Welding 1	2
10-602-125 Electrical&Electronic Systems1	2

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

AUTO COLLISION REPAIR SECOND SERIES

10-405-111 Collision Repair Structural 1	3
10-405-112 Collision Repair Structural 2	3
10-405-113 Collision Repair Structural 3	2
10-405-122 Collision-Drive Systems	2
10-405-146 Collision Repair Welding 2	2
10-602-124 Steering & Suspension Systems	3
TOTAL PROGRAM CREDITS	**59**

Auto Collision Repair and Refinishing Technology

Graduates of this program gain all of the technical training and career potential offered by the Auto Collision Repair and Refinishing Technician technical diploma program – plus the opportunity to pursue a supervisory or management career in the collision repair industry. Typical careers include insurance adjuster/appraiser, collision center owner, collision center manager, and manufacturer's representative. As a program graduate, you may also transfer credit to a four-year college to further your career options.

AUTO COLLISION REFINISHING FIRST SERIES

10-405-101 Intro to Auto Refinishing	2
10-405-106 Plastics & Composites	1
10-405-107 Coll Refinish Surface Prep	2
10-405-108 Collision Refinish Topcoat App	3
10-801-136 English Composition 1	3
10-804-107 College Mathematics	3
10-809-197 Contemporary Amer Society	3

AUTO COLLISION REFINISHING SECOND SERIES

10-405-109 Refinishing Tinting & Blending	2
10-405-110 Collision Refinishing-Advanced	3
10-405-147 Auto Refinish Prod Emmissions	1
10-405-148 Auto Refinish Custom	1
10-405-149 Auto Coll, Business Practice	1
10-801-196 Oral/Interpersonal Comm	3
10-801-197 Technical Reporting	3
10-809-172 Race Ethnic & Diversity	3

AUTO COLLISION REPAIR FIRST SERIES

10-405-100 Intro to Collision Repair	2
10-405-102 Collision Repair Non Struct 1	2
10-405-103 Collision Repair Non Struct 2	2
10-405-104 Collision Repair Non Struct 3	2
10-405-105 Collision Repair Non Struct 4	2
10-405-114 Collision Repair Estimating	1
10-405-120 Collision Repair Mech - HVAC	2
10-405-128 Collision Repair Elec Sys-SRS	1
10-405-144 Collision Repair Welding 1	2
10-602-125 Electrical&Electronic Systems 1	2

AUTO COLLISION REPAIR SECOND SERIES

10-405-111 Collision Repair Structural 1	3
10-405-112 Collision Repair Structural 2	3
10-405-113 Collision Repair Structural 3	2
10-405-122 Collision-Drive Systems	2
10-405-146 Collision Repair Welding 2	2
10-602-124 Steering & Suspension Systems	3
10-809-199 Psychology Of Human Relations	3
TOTAL PROGRAM CREDITS	**18**

Automotive Technician

Turn your passion for cars into a stimulating career. As an automotive service technician, you'll diagnose vehicle malfunctions, perform appropriate repairs, and recommend/conduct regular vehicle maintenance. Additional career opportunities for Automotive Technician program graduates include automotive electronics specialist; brake specialist; steering, suspension, and alignment specialist; transmission and drive train specialist; engine performance specialist; heating and air conditioning specialist; and engine repair specialist.

FIRST SEMESTER

10-602-103 Engine Repair 1	2
10-602-104 Brake Systems	3
10-602-107 Auto Service Fundamentals	2
10-602-124 Steering & Suspension Systems	3
10-602-125 Electrical&Electronic Systems1	2
31-442-350 Welding-Machine Trades	2
31-801-385 Communicating-Writing	1

SECOND SEMESTER

10-602-127 Electrical and Electronic Sys	3
10-602-195 Advanced Chassis Systems	2
10-602-197 Engine Performance 1	3
10-602-198 Engine Performance 2	4
10-602-199 Alternative Fuels Technology	1
10-804-107 College Mathematics	3

THIRD SEMESTER

10-602-123 Engine Repair 2	3
10-602-128 Electrical&Electronic Systems3	3
10-602-196 Climate Control Systems	3
10-602-200 Diesel Fuel Technology	1
10-602-201 Vehicle Computer Controlled Sy	1
10-809-197 Contemporary Amer Society	3

FOURTH SEMESTER

10-602-109 Auto Transmission/Transaxle	4
10-602-149 Manual Drive Train and Axles	4
10-602-150 Automotive Certification Prep	1
10-602-202 Advanced Vehicle Man Tech	3
10-602-203 Vehicle Body Mechanical Svc	1
31-801-386 Communicating Effectively	1
TOTAL PROGRAM CREDITS	**59**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

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2012 - 2013

FOURTH SEMESTER

10-602-109	Auto Transmission/Transaxle	4
10-602-149	Manual Drive Train and Axles	4
10-602-150	Automotive Certification Prep	1
10-602-202	Advanced Vehicle Man Tech	3
10-602-203	Vehicle Body Mechanical Svc	1
10-801-196	Oral/Interpersonal Comm	3
10-809-199	Psychology Of Human Relations	3
	TOTAL PROGRAM CREDITS	**70**

Diesel and Heavy Equipment Technician

Graduates of this technical diploma program are equipped to diagnose, service, and repair a variety of diesel powered equipment. Typical careers include construction equipment technician, engine technician, farm equipment technician, fuel injection technician, service technician, and truck driver/diesel technician.

FIRST SEMESTER

10-103-111	Micro: Windows-Intro	1
10-412-100	Diesel Lab Operations Tech	1
10-412-108	Inte Combust Eng Tech-Intro to	1
10-412-111	Diesel Engine Service Fund	4
10-412-112	Diesel Electrical Systems 1 Tech	3
10-412-146	Power Generation 1	2
10-804-107	College Mathematics	3
32-442-352	Welding-Metal Working Proc	2

SECOND SEMESTER

10-412-120	Diesel-Chassis/Susp/Steer Tech	4
10-412-121	Diesel-Brake Systems Tech	3
10-412-122	Diesel Preventive Maint Tech	4
10-412-123	Diesel-Elect Systems Tech	3
31-801-385	Communicating-Writing	1

THIRD SEMESTER

10-412-124	Diesel-Electric Eng System Tech	1
10-412-134	Diesel Engine Systems Tech	4
10-412-136	Diesel-Mobile Hydraulic Sys Tech	2
10-412-137	Diesel-Schematic Interpret Tech	2
10-412-138	Diesel-Track Drive Systems Tech	2
10-412-142	Diesel Equip Service/Maint Tech	3
10-419-169	Hydraulics Technology	2
10-458-100	CDL License Training	1

FOURTH SEMESTER

10-412-140	Diesel Engine Troubleshoot Tech	4
10-412-141	Diesel-Power Trains Technology	5
10-412-145	Diesel-Refrig/AC Technology	3
10-809-197	Contemporary Amer Society	3
31-801-386	Communicating Effectively	1
	TOTAL PROGRAM CREDITS	**65**

Automotive Technology

Highly skilled automotive technicians and specialists are needed to keep pace with the increasingly complex vehicles being manufactured for today's consumer. In the Automotive Technology program, you'll learn to diagnose and service automobiles under conditions similar to an actual repair facility. Plus, you'll develop repair facility management skills to increase your employment potential. Career opportunities for you include automotive service technician, shop foreman, parts manager, warranty claims person, repair facility owner/operator, plus all of the career opportunities offered by the Automotive Technician program.

FIRST SEMESTER

10-602-103	Engine Repair 1	2
10-602-104	Brake Systems	3
10-602-107	Auto Service Fundamentals	2
10-602-124	Steering & Suspension Systems	3
10-602-125	Electrical & Electronic Systems 1	2
10-801-136	English Composition 1	3
10-804-107	College Mathematics	3

SECOND SEMESTER

10-602-127	Electrical and Electronic Sys	3
10-602-195	Advanced Chassis Systems	2
10-602-197	Engine Performance 1	3
10-602-198	Engine Performance 2	4
10-602-199	Alternative Fuels Technology	1
10-809-197	Contemporary Amer Society	3

THIRD SEMESTER

10-602-123	Engine Repair 2	3
10-602-128	Electrical&Electronic Systems 3	3
10-602-196	Climate Control Systems	3
10-602-200	Diesel Fuel Technology	1
10-602-201	Vehicle Computer Controlled Sy	1
10-801-197	Technical Reporting	3
10-809-172	Race Ethnic & Diversity	3

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Diesel Equipment Technology

Highly skilled technicians are needed to diagnose, service, and repair a variety of heavy equipment ranging from over-the-road trucks, off-the-road construction equipment, agricultural equipment, and potentially stationary power supply engines. As a graduate of the Diesel Equipment Technology associate degree program, you'll not only gain such high-tech skills and hands-on experience, you'll be prepared for management, ownership, supervisory level positions, and advanced educational options. Career opportunities include diesel and heavy equipment technician, related specialist technician, related parts support manager, industry related service manager/supervisor, industry related sales representative, business owner, and educational trainer.

FIRST SEMESTER

10-412-100 Diesel Lab Operations Tech	1
10-412-108 Inte Combust Eng Tech-Intro to	1
10-412-111 Diesel Engine Service Fund	4
10-412-112 Diesel Electrical Systems 1 Tech	3
10-801-136 English Composition 1	3
10-804-107 College Mathematics	3

SECOND SEMESTER

10-412-120 Diesel-Chassis/Susp/Steer Tech	4
10-412-121 Diesel-Brake Systems Tech	3
10-412-122 Diesel Preventive Maint Tech	4
10-412-123 Diesel-Elect Systems Tech	3
10-801-196 Oral/Interpersonal Comm	3

THIRD SEMESTER

10-412-124 Diesel-Electric Eng System Tech	1
10-412-134 Diesel Engine Systems Tech	4
10-412-136 Diesel-Mobile Hydraulic Sys Tech	2
10-412-137 Diesel-Schematic Interpret Tech	2
10-419-169 Hydraulics Technology	2
10-458-100 CDL License Training	1
10-809-172 Race Ethnic & Diversity	3
10-809-199 Psychology Of Human Relations	3

FOURTH SEMESTER

10-412-140 Diesel Engine Troubleshoot Tech	4
10-412-141 Diesel-Power Trains Technology	5
10-412-145 Diesel-Refrig/AC Technology	3
10-801-197 Technical Reporting	3
10-809-197 Contemporary Amer Society	3
TOTAL PROGRAM CREDITS	**68**

Why it's SMART TO CHOOSE NWTC

FACT: More than 2,000 people per year graduate from NWTC and 89% of them have jobs within a few months of graduation.

Supply Chain Management

As a graduate of the Supply Chain Management associate degree, you are prepared for careers in all activities involved in the flow of goods – from point of origin to the point of consumption. You are knowledgeable in transportation, inventory control, Lean operations management, purchasing, international trade, customer service, logistics management, enterprise resource planning, and negotiations. Core competencies of the program include planning and organizing, decision making, continuous improvement and problem solving, coordinating and controlling processes and managing the logistics in order to manage a customer's supply chain. Typical careers in this field include claims analyst, customer service representative, dispatcher, inventory analyst, inventory control specialist, logistics technician, materials planner, master production scheduler, purchasing assistant, shipping and receiving specialist, transportation planner/coordinator, and warehouse specialist.

FIRST SEMESTER

10-103-121 Micro: Word-Intro	1
10-103-131 Micro: Excel-Intro	1
10-103-141 Micro: Access-Intro	1
10-103-151 Micro: PowerPoint-Intro	1
10-104-110 Marketing Principles	3
OR	
10-104-148 Global Marketing	3
10-182-110 Lean Operations Mgmt	3
10-182-157 Logistics/Supply Chain Mgmt	3
10-804-123 Math w Business Apps	3

SECOND SEMESTER

10-101-106 Accounting-for Non-Accountants	3
OR	
10-101-184 Business Finance/Budgeting	3
10-102-160 Global Business Mgmt	3
10-104-191 Customer Service	3
10-182-127 Purchasing	3
10-182-190 Transportation Mgmt	3
10-801-136 English Composition 1	3

THIRD SEMESTER

10-102-100 Bus and Info Tech Occup Prep	1
10-182-120 Enterprise Resource Plan/Cont	3
10-182-160 Global Supply Chain Mgmt	3
10-801-196 Oral/Interpersonal Comm	3
10-809-166 Intro to Ethics: Theory & App	3
10-809-172 Race Ethnic & Diversity	3

FOURTH SEMESTER

10-102-104 International Business Prac	3
10-182-131 Negotiations	3
10-182-199 Supply Chain Intern Practicum	2
OR	
10-182-197 Sup Chain Field Research	2
10-809-195 Economics	3
10-809-199 Psychology Of Human Relations	3
Elective	3
TOTAL PROGRAM CREDITS	**67**

For full program information, including each program's financial aid eligibility, location, and course descriptions, please go to **www.nwtc.edu/programs**

Meet NWTC'S PRESIDENT online

Dr. Jeff Rafn blogs about what's happening, what's planned, and how external events may affect you.

Check it out at **www.nwtc.edu/getsocial** and add a comment or question of your own!

OUR VISION

NWTC will provide the highest quality, life-long learning opportunities that are
- what you want
- when you want
- where you want, and
- how you want them

so you may continue your learning and successfully engage in a career that enhances your quality of life in a global community.

OUR MISSION

We are a two-year technical college, serving Northeast Wisconsin by providing education, training, and lifelong learning opportunities for individuals and businesses leading to the development of a skilled workforce.

Our customers stimulate the economic vitality of our district as a result of the application of skills and knowledge acquired through the completion of certificates, degrees, diplomas, and courses.

Celebrating
100 Years
1912-2012
Northeast Wisconsin Technical College

NWTC is over 100 years old! See our history at **www.nwtc.edu/100years**

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Learn WHERE, WHEN and HOW YOU PREFER
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Artisan and Business Center
NEW Clinic at NWTC
Advance Business & Manufacturing Center
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Metro Regional Learning Center

MARINETTE
Marinette Campus
North Coast Marine Training Center

STURGEON BAY
Sturgeon Bay Campus

CRIVITZ
Central Regional Learning Center
Northwoods Regional Learning Lab
   (at Wausaukee High School)

LUXEMBURG
East Regional Learning Center
Hillcrest Artisan Center

NIAGARA
North Regional Learning Center
Woodland Kitchen – Aurora
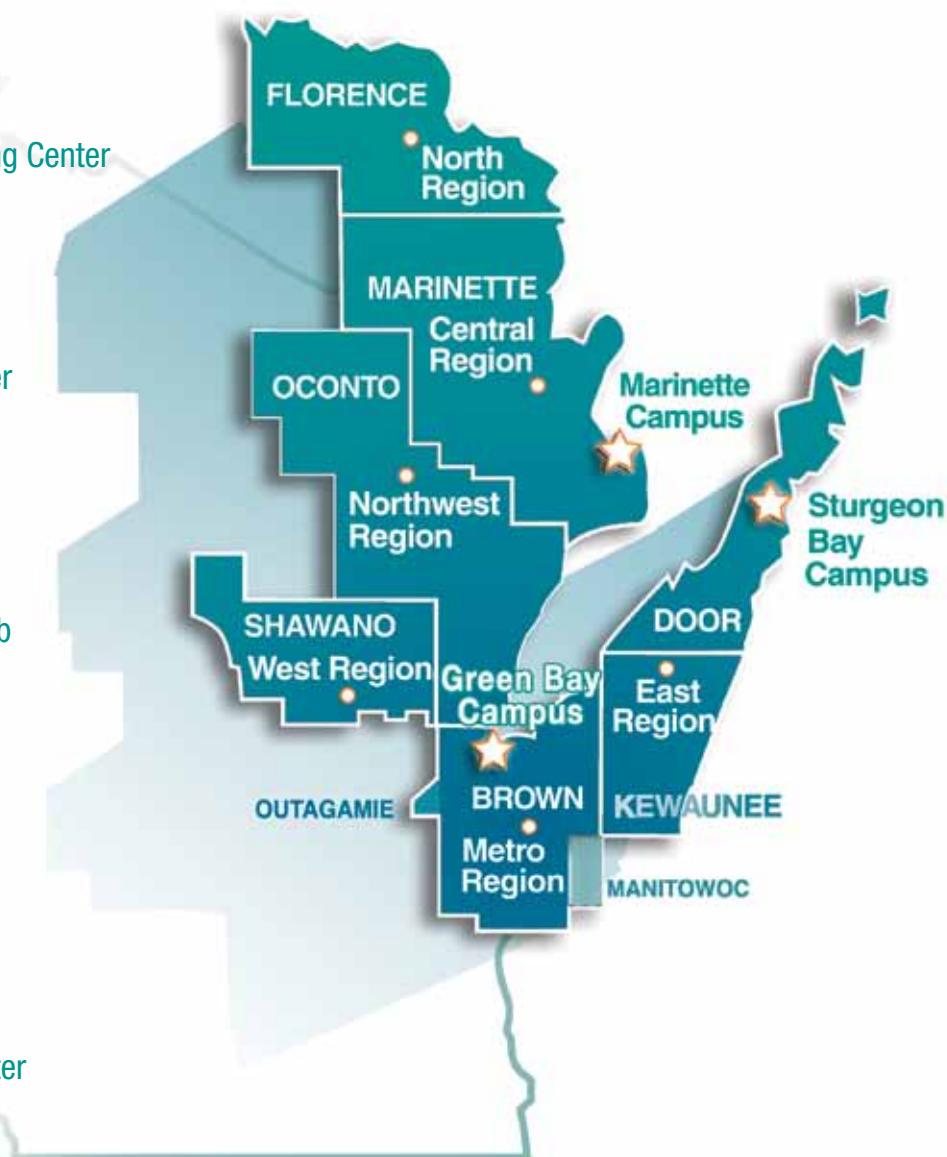
OCONTO FALLS
Northwest Regional Learning Center

SHAWANO
West Regional Learning Center

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DID YOU KNOW?
All NWTC campuses and Regional Learning Centers offer free computer access and free wi-fi.

LEARN MORE

About offerings at each location:
www.nwtc.edu/places

About maps and destinations:
www.nwtc.edu/directions

GET TECHNICAL – GET A CAREER

Why IT'S SMART to choose NWTC

- NWTC is ranked in the top 10% of U.S. community colleges for helping students learn, graduate and succeed.
(Source: Aspen Institute College Excellence Program)

- More than 2,000 people per year graduate from NWTC and 89% of them have jobs within a few months of graduation.

- NWTC offers programs in most of the fastest-growing occupations in the United States.
(Source: U.S. Bureau of Labor Statistics Fastest Growing Occupations)

- Out of 5,000 U.S. colleges, NWTC is among the top 1% for associate degrees in Precision Production; Communication Technologies and Related Services; and Agriculture, Agriculture Operations and Related Sciences.
(Source: U.S. Dept. of Education data reported in Community College Week, June 13, 2011.)

- Our online, blended, in-person, and other flexible ways of learning will fit your busy life.

- NWTC is accredited and affordable!

Visit **www.nwtc.edu/gettingstarted** to apply today!

NWTC is over 100 years old!

Celebrating
100 Years
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See our history at
www.nwtc.edu/100years

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(920) 498-5444

Marinette Campus
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Marinette, WI 54143
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