



Northcentral
TECHNICAL COLLEGE

TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS

NTC Program: Electromechanical Technology

UWSP Program: Technology Management

Minimum GPA for admission: 2.25

Initial effective date: 01-01-2024

General Education Courses

NTC			UWSP		
Course No.	Course Title	Credits	Course No.	Course Title/Field	Credits
10-804-195	College Algebra with Apps (3 cr.) <u>OR</u>	3 <u>OR</u>	MATH 118	Pre-Calculus Algebra (GEP: QL) <u>OR</u>	3 <u>OR</u>
10-804-118	Intermediate Algebra with Apps (4 cr.)	4	MATH 95 MATH 107	Intermediate Algebra <u>AND</u> Algebra for Pre-Calculus	2 ¹
10-806-154	General Physics 1	4	PHYS 201	PHYS 201 Applied Principles of Physics	4
10-806-144	College Physics 2	3	NSC 1XX	Natural Science Elective (GEP: NSC)	3
10-801-196	Oral/Interpersonal Communication	3	COMM 180	Fdns Workplace Communication (GEP: CT)	3
10-801-195	Written Communication <u>OR</u>	3	ENGL 101	Academic Reading and Writing (GEP: WC)	3
10-801-136	English Composition 1				
10-809-172	Intro to Diversity Studies <u>OR</u>	3	SSUS 1XX SOC 101	SSUS 100-Level Elective (GEP: SS, USD) <u>OR</u> Introduction to Sociology (GEP: SS, USD)	3
10-809-196	Intro to Sociology				
10-809-198	Intro to Psychology <u>OR</u>	3	PSYC 110 SS 1XX	Introduction to Psychology (GEP: SS) <u>OR</u> SS 100-Level Elective (GEP: SS)	3
10-809-199	Psychology of Human Relations				
10-890-165	College 101	1	ELEC 1XX	100-Level Elective	1
Total general education credits earned:		23-24			
Total transferable general education credits:		22-23		Total general education credits accepted:	22-23

Occupational Courses

Course No.	Course Title	Credits	Course No.	Course Title	Credits
10-660-118	Electrical Fabrication	1	ELEC 1XX	ELEC 100-Level Elective	1
10-612-120	Fluid Power Systems 1: Fundamentals	1	ELEC 1XX	ELEC 100-Level Elective	1
10-612-121	Fluid Power Systems 2: Fundamentals of Pneumatics	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-172	Industry Workplace Safety	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-123	Industrial Ele Tech 1- Direct Current Ele Characteristics	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-124	Industrial Ele Tech 2- Alternating Current Ele Characteristics	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-171	AutoCAD for Technicians <u>OR</u>	1	ELEC 1XX	ELEC 100-Level Elective	1
10-664-101	AutoCAD Electrical				
10-606-133	Solidworks 1	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-121	Intro to Microcontrollers	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-151	Machine Control 1: Ladder Logic Fund	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-152	Machine Control 2: Motor & Actuator Control	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-153	Machine Control 3: Sensors & Machine Safety	1	ELEC 1XX	ELEC 100-Level Elective	1

10-620-157	Mechanical Systems 1: Basic Machine Comp	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-158	Mechanical Systems 2: Power Trans Systems	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-159	Industrial Motors 1: Electric Motors	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-125	Industrial Ele Tech 3- Electronic Circuits and Devices	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-126	Industrial Ele Tech 4- Electrical Systems	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-127	Industrial Ele Tech 5- Advanced Electrical Characteristics	1	ELEC 1XX	ELEC 100-Level Elective	1
10-660-128	Industrial Ele Tech 6- Advanced Digital Concepts	1	ELEC 1XX	ELEC 100-Level Elective	1
10-420-101	Intro to Machine Shop	2	ELEC 1XX	ELEC 100-Level Elective	2
10-620-154	Robot App 1: Fundamentals of Robotic Control	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-155	Robot App 2: Robotic System Comp & Software	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-160	Industrial Motors 2: DC/AC Var Speed Motor Dr	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-161	Servo Sys 1: Fundamentals of Industrial Control Systems	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-162	Servo Sys 2: Motion Control Systems	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-173	Electromechanical Troubleshooting	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-164	PLC 1: PLC Fundamentals And Bit Based Instruction	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-165	PLC 2: Timers, Counters, And Program Control	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-166	PLC 3: Data, Math, Sequencer And Shift Instructions	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-167	PLC 4: Advanced Instructions & Programming	1	ELEC 1XX	ELEC 100-Level Elective	1
10-442-101	Intro to Welding	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-163	Servo Systems 3: Advanced Position Control & Integration	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-145	Electromechanical Projects	3	ELEC 1XX	ELEC 100-Level Elective	3
10-620-168	PLC 5: Industrial Networking	1	ELEC 1XX	ELEC 100-Level Elective	1
10-620-169	PLC 6: PLC, PAC And PC Automation Integration	1	ELEC 1XX	ELEC 100-Level Elective	1
	Total occupational course credits earned:	38		Total occupational course credits accepted:	38
	Total credits required for graduation:	61-62		Total credits accepted at UWSP:	60-61

Courses needed to complete degree at UWSP:

Course No.	Course Title	Credits
Courses in the major²:		
Science and Engineering Skills - 16 credits		
CHEM 105	Fundamental Chemistry	5
CHEM 106	Fundamental Chemistry	5
ENGR 105	Engineering Fundamentals	3
ENGR 107	Engineering Graphics with Computer Aided-Draftin	3
Management Skills - 15 credits		
BUS 320	Principles of Management <u>OR</u>	3
BUS 325	Organizational Behavior	
BUS 322	Business Leadership for Managers	3
BUS 329	Project Management <u>OR</u>	3

PSEN 316	Engineering Economics and Project Management	3
BUS 360	Principles of Production-Operations Management	3
PSYC 345	Industrial Organizational Psychology	3
Communication Skills - Take 12 credits from the courses below		
BUS 201	Writing and Presenting for Business	3
BUS 301	Building Relationships for Business	3
COMM 345	Small Group Communication	3
COMM 394	Business and Professional Communication	3
ENGL 254	Workplace Writing	3
ENGL 351	Advanced Business Writing	3
ENGL 352	Writing for Digital Media	3
ENGL 354	Advanced Scientific and Technical Writing	3
General Education Program courses³:		
ENGL 202	Academic Writing and Research	3
WLN	GEP: Wellness	1
GEP	GEP: Arts	3
GEP	GEP: Humanities	3
GEP	GEP: Historical Perspectives	3
GEP	Global Awareness and Environmental Responsibility, may be satisfied with coursework above	0-6
GEP	GEP: Quantitative Literacy	0-3
Total credits needed at UWSP to complete degree⁴:		56-65

¹ The 4-credit NTC Intermediate Algebra w/Apps (10-804-118) transfers to UWSP as MATH 95 *and* MATH 107 (2 credits). However, MATH 95 does not count toward college credit in fulfillment of the 120 credits required for a degree and is noted here.

² In addition to credits in major courses listed above, additional 300/400-level credits *may* be required to satisfy university graduation requirement of at least 32 credits at the 3XX/4XX levels. 3XX courses are available for some of the GEP categories (e.g., Humanities, Historical Perspectives and Quantitative Literacy).

³ Exact number of credits depends on course selection. Quantitative Literacy requirement may possibly be fulfilled by MATH taken for associate program.

⁴ A minimum of 120 credits are required for graduation. Depending on course options, some students may complete the program requirements with fewer than 120 credits and an additional elective course may be required to reach 120 credits.

Disclaimer: Students planning to transfer should contact NTC's Transfer Specialist and transfer personnel at UWSP for the most current transfer information.

Updated: 3/1/24