PROGRAM PLANNING GUIDE ELECTRICAL SYSTEMS TECHNOLOGY A35130 Fall Start

Replaces Curriculum Schedule with Revision Date: FA2024 Date Revised: FA2025

| Keplaces | S Curric | ulum Schedule with Revision Date: | | | | Date | Revised: | FA2025 |
|-----------|----------|-----------------------------------|---------------------|---------------|-------|---------|----------|------------|
| | | | CURRICULUM BY SEM | ESTER | | | | |
| | | T | | 1 | | er Week | | Semesters |
| Course | | Course Title | Pre-Requisites | Co-Requisites | Class | Lab | Credits | Offered |
| Fall Seme | | | | 1 | | | • | |
| | .15 | Success & Study Skills | None | None | 0 | 2 | 1 | FA, SP |
| | .25 | Diagrams and Schematics | None | None | 1 | 2 | 2 | FA, SP |
| | .12 | DC/AC Electricity | None | None | 3 | 6 | 5 | FA, SP |
| | .13 | Residential Wiring | None | ELC 118 | 2 | 6 | 4 | FA, SP |
| ELC 1 | .18 | National Electric Code | None | None | 1 | 2 | 2 | FA, SP |
| Spring Se | emester | r 1 | | | | | | |
| ELC 1 | .14 | Commercial Wiring | ELC 118 | None | 2 | 6 | 4 | FA, SP |
| ELC 1 | .17 | Motors and Controls | ELC 112 or ELC 131 | None | 2 | 6 | 4 | FA, SP |
| ELC 1 | .19 | NEC Calculations | ELC 118 | None | 1 | 2 | 2 | FA, SP |
| | | English Elective | | | | | 3 | |
| Summer | Semest | ter 1 | | | | | | |
| | .28 | Introduction to PLC | ELC 117 or ELN 231 | None | 2 | 3 | 3 | SP, SU |
| ISC 1 | .21 | Environmental Health & Safety | None | None | 3 | 0 | 3 | FA, SP, SU |
| | | Major Elective 1 | | | | | 3 | |
| Fall Seme | ester 2 | | | | | | | |
| ELC 1 | .15 | Industrial Wiring | ELC 114 and ELC 119 | None | 2 | 6 | 4 | FA, SP |
| | | Humanities Elective | | | | | 3 | |
| | | Math Elective | | | | | 3 | |
| | | Major Elective 2 | | | | | 3 | |
| | | Work-Based Learning Elective | | | | | 2 | |
| Spring Se | emestei | r 2 | | | | | | |
| | .27 | Software for Technicians | None | None | 1 | 3 | 2 | SP, SU |
| | .34 | Transformer Applications | ELC 117 | None | 1 | 2 | 2 | SP |
| | | Communication Elective | | | | | 3 | |
| | | Social Science Elective | | | | | 3 | |
| | | Major Elective 3 | | | | | 3 | |
| | | <u> </u> | | | _ | ! | <u> </u> | |

Graduation Requirement Credit Hours: 64

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WORK BASED LEARNING ELECTIVE

| WBL Electives: Take 2 Credit Hours | | | | | | | | | | | |
|------------------------------------|---------|------------------------|--------------------------|------|----------|---------|---------|------------|--|--|--|
| | | | | | Hours Pe | er Week | | Semesters | | | |
| Cou | rse No. | Course Title | | | Class | Lab | Credits | Offered | | | |
| ELC | 121 | Electrical Estimating | ELC 125 and ELC 114 | None | 1 | 2 | 2 | FA, SP | | | |
| WBL | 111DE | Work-Based Learning I | 14 program credits hours | None | 0 | 10 | 1 | FA, SP, SU | | | |
| WBL | 112DE | Work-Based Learning I | 14 program credits hours | None | 0 | 20 | 2 | FA, SP, SU | | | |
| WBL | 121DE | Work-Based Learning II | 14 program credits hours | None | 0 | 10 | 1 | FA, SP, SU | | | |

| | | | MAJOR ELECTIVE | S | | | | |
|--------|------------|---------------------------------|----------------|------|----------|---------|---------|------------|
| Major | Electives: | Take 9 Credit Hours | | | | | | |
| Renev | vable Enei | gy Track | | | Hours Pe | er Week | | Semesters |
| Cou | ırse No. | Course Title | | | Class | Lab | Credits | Offered |
| ALT | 120 | Renewable Energy Technology | ELC 112 | None | 2 | 2 | 3 | SU |
| ELC | 220 | Photovoltaic Systems Technology | ALT 120 | None | 2 | 3 | 3 | FA |
| ELC | 221 | Advanced Photovoltaic System | ELC 220 | None | 2 | 3 | 3 | SP |
| Busine | ess Track | | | • | Hours Pe | er Week | | Semesters |
| Cou | ırse No. | Course Title | | | Class | Lab | Credits | Offered |
| BUS | 110 | Introduction to Business | None | None | 3 | 0 | 3 | FA, SP, SU |
| BUS | 115 | Business Law I | None | None | 3 | 0 | 3 | FA, SP, SU |
| BUS | 139 | Entrepreneurship I | None | None | 3 | 0 | 3 | FA, SP, SU |

| | ENGLISH ELECTIVES | | | | | | | | | | | | |
|------------------|--------------------|---|-----------------------|--------------------------|-----------|-----------|---|------------|--|--|--|--|--|
| Take 3 | ake 3 Credit Hours | | | | | | | | | | | | |
| Hours Per Week S | | | | | Semesters | | | | | | | | |
| Cou | ırse No. | Course Title | | | Class | Class Lab | | Offered | | | | | |
| ENG | 110 | Freshman Composition | ENG 002 (If required) | None | 3 | 0 | 3 | FA, SP, SU | | | | | |
| FNG | 111 | Writing and Inquiry (University Transfer) | ENG 025 (If required) | ENG 045 (If required) | 3 | 0 | 3 | FA, SP, SU | | | | | |

| | COMMUNICATION ELECTIVES | | | | | | | | | | | | |
|----------------|-------------------------|-------------------------------|------------------------|------|-----------|-----------|---|------------|--|--|--|--|--|
| Take 3 | ke 3 Credit Hours | | | | | | | | | | | | |
| Hours Per Week | | | | | Semesters | | | | | | | | |
| Cou | rse No. | Course Title | | | Class | Class Lab | | Offered | | | | | |
| | | | ENG 002 or ENG 025 | None | | 0 | 2 | EA CD CII | | | | | |
| СОМ | 110 | Introduction to Communication | (If required), ENG 110 | None | 3 | U | 3 | FA, SP, SU | | | | | |
| СОМ | 231 | Public Speaking | ENG 111 | None | 3 | 0 | 3 | FA, SP, SU | | | | | |

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| HUMANITIES ELECTIVES |
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| | | | | | Hours Per Week | | | Semesters |
|-----|---------|------------------------|----------------------|------|----------------|-----|---------|------------|
| Cou | rse No. | Course Title | | | Class | Lab | Credits | Offered |
| | | | ENG 002 or ENG 025 | None | 2 | 0 | 2 | EV CD CIT |
| HUM | 110 | Technology and Society | (If required) | None | 3 | 0 | 3 | FA, SP, SU |
| | | | ENG 002, ENG 025, or | Nege | 2 | _ | 2 | EA CD CII |
| ним | 1115 | Critical Thinking | FNG 111 | None | 3 | 0 | 3 | FA, SP, SU |

SOCIAL SCIENCE ELECTIVES

Take 3 Credit Hours

Take 3 Credit Hours

| | | | | | Hours Per Week | | | Semesters |
|-----|---------|--------------------------------|--------------------|------|----------------|-----|---------|------------|
| Cou | rse No. | Course Title | | | Class | Lab | Credits | Offered |
| PSY | 118 | Interpersonal Psychology | None | None | 3 | 0 | 3 | FA, SP, SU |
| | | General Psychology (University | ENG 002 or ENG 025 | None | 2 | 0 | 2 | EA CD CII |
| PSY | 150 | Transfer) | (If required) | None | 3 | U | 5 | FA, SP, SU |

MATH ELECTIVES

Take 3 Credit Hours

| | | | | | Hours Per Week | | ours Per Week | |
|-----|---------|---|--|------|----------------|-----|---------------|------------|
| Cou | rse No. | Course Title | | | Class | Lab | Credits | Offered |
| MAT | 110 | Math Measurement and Literacy | MAT 003, MAT 010, or MAT 045M (If required) | None | 2 | 2 | 3 | FA, SP, SU |
| MAT | 121 | Algebra/Trigonometry I | MAT 003, MAT 021, MAT 035, or MAT 045A (If required) | None | 2 | 2 | 3 | FA, SP, SU |
| MAT | 171 | Precalculus Algebra (University Transfer) | ENG 002 or ENG 025 (If required) MAT 003, MAT 035, MAT 071, or MAT 045P (If required) | None | 3 | 2 | 4 | FA, SP, SU |