



**TRANSFER GUIDE - ASSOCIATE DEGREE PROGRAMS**

**NTC Program: Welding Fabrication & Robotics**

**Siena Heights University Program: Bachelor of Applied Science**

**Minimum GPA for admission: 2.0**

**Initial effective date: Fall semester, 2023**

**General Education Courses**

| NTC                                            |                                         |           | Sienna Heights University (SHU) |                                                                                                                                                                  |         |
|------------------------------------------------|-----------------------------------------|-----------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Course No.                                     | Course Title                            | Credits   | Course No.                      | Course Title/Field                                                                                                                                               | Credits |
| 10-804-107                                     | College Math                            | 3         |                                 | Courses passed with a C (2.0) or better will transfer "D" grade may be considered within an Associate degree and transferred as a block credit for core courses. | 19      |
| 10-801-196                                     | Oral/Interpersonal Communication        | 3         |                                 |                                                                                                                                                                  |         |
| 10-801-195                                     | Written Communication <u>OR</u>         | 3         |                                 |                                                                                                                                                                  |         |
| 10-801-136                                     | English Composition 1                   |           |                                 |                                                                                                                                                                  |         |
| 10-809-199                                     | Psychology of Human Relations <u>OR</u> | 3         |                                 |                                                                                                                                                                  |         |
| 10-809-198                                     | Intro to Psychology                     |           |                                 |                                                                                                                                                                  |         |
| 10-809-172                                     | Intro to Diversity Studies              | 3         |                                 |                                                                                                                                                                  |         |
| 10-801-197                                     | Technical Reporting                     | 3         |                                 |                                                                                                                                                                  |         |
| 10-890-165                                     | College 101                             | 1         |                                 |                                                                                                                                                                  |         |
| <b>Total general education credits earned:</b> |                                         | <b>19</b> |                                 |                                                                                                                                                                  |         |
| Total transferable general education credits:  |                                         | 19        |                                 |                                                                                                                                                                  |         |

**Occupational Courses**

| Course No. | Course Title                                                 | Credits | Course No. | Course Title | Credits |
|------------|--------------------------------------------------------------|---------|------------|--------------|---------|
| 10-442-101 | Introduction to Welding                                      | 1       |            |              |         |
| 10-442-163 | Weld Inspections & Testing                                   | 1       |            |              |         |
| 10-442-172 | Welding Safety                                               | 1       |            |              |         |
| 10-442-173 | Thermal Cutting                                              | 1       |            |              |         |
| 10-442-181 | Weld Print Reading 1: Basic Views and Dimensions             | 1       |            |              |         |
| 10-442-182 | Weld print Reading 2: Other Views and Symbols                | 1       |            |              |         |
| 10-442-183 | Gas Metal ARC Welding 1: Short Circuit Transfer (Horizontal) | 1       |            |              |         |
| 10-442-184 | Gas Metal ARC Welding 2: Short Circuit Transfer (Vertical)   | 1       |            |              |         |
| 10-442-185 | Gas Metal ARC Welding 3: Spray Transfer                      | 1       |            |              |         |
| 10-442-186 | Gas Metal ARC Welding 4: Pulsed Spray Transfer               | 1       |            |              |         |
| 10-442-194 | Flux Cored ARC Welding 1: Theory, Maintenance and Set-up     | 1       |            |              |         |
| 10-442-203 | Welding Career Exploration                                   | 1       |            |              |         |

|            |                                                                           |           |                                                    |
|------------|---------------------------------------------------------------------------|-----------|----------------------------------------------------|
| 10-442-187 | Gas Metal ARC Welding 5: Stainless Steel                                  | 1         |                                                    |
| 10-442-188 | Gas Metal ARC Welding 6. Sheet Metal                                      | 1         |                                                    |
| 10-442-111 | Intro to Welding CNC Applications                                         | 1         |                                                    |
| 10-442-165 | Welding Metallurgy                                                        | 1         |                                                    |
| 10-442-189 | Welding Fabrication Techniques 1: International Weld Symbols              | 1         |                                                    |
| 10-442-190 | Welding Fabrication Techniques 2: GD&T and Pipe Prints                    | 1         |                                                    |
| 10-442-191 | Welding Fabrication Techniques 3: Production Welding                      | 1         |                                                    |
| 10-442-192 | Shielded Metal ARC Welding 1: E7018                                       | 1         |                                                    |
| 10-442-193 | Shielded Metal ARC Welding 2: E6010, E7018                                | 1         |                                                    |
| 10-442-195 | Flux Cored ARC Welding 2: 045 Diameter Wire                               | 1         |                                                    |
| 10-442-196 | Flux Cored ARC Welding 3: Submerged Arc Welding & 1/16" Diameter Wire     | 1         |                                                    |
| 10-442-197 | Gas Tungsten ARC Welding 1: Carbon Steel, Flat and horizontal Positions   | 1         |                                                    |
| 10-442-198 | Gas Tungsten ARC Welding 2: Carbon Steel, Vertical and Overhead Positions | 1         |                                                    |
| 10-442-199 | Gas Tungsten ARC Welding 3: Stainless Steel                               | 1         |                                                    |
| 10-442-200 | Gas Tungsten ARC Welding 4: Aluminum                                      | 1         |                                                    |
| 10-442-201 | Gas Tungsten ARC Welding 5: Pipe and Tubing                               | 1         |                                                    |
| 10-420-101 | Introduction to Machine Shop                                              | 2         |                                                    |
| 10-442-141 | Robotic Welding Applications 1                                            | 2         |                                                    |
| 10-442-142 | Welding Laser Programming                                                 | 1         |                                                    |
| 10-442-175 | Welding Metal Forming 1                                                   | 1         |                                                    |
| 10-442-176 | Welding Metal Forming 2                                                   | 1         |                                                    |
| 10-442-140 | Layout & Welding Fabrication 1                                            | 2         |                                                    |
| 10-442-143 | Layout & Welding Fabrication 2                                            | 2         |                                                    |
| 10-442-144 | Robotic Welding Applications 2                                            | 3         |                                                    |
| 10-442-145 | Welding Laser Operations                                                  | 1         |                                                    |
| 10-606-133 | SolidWorks 1                                                              | 1         |                                                    |
| 10-442-179 | SolidWorks for Welders                                                    | 1         |                                                    |
|            | <b>Total occupational course credits earned:</b>                          | <b>45</b> |                                                    |
|            | <b>Total program credits:</b>                                             | <b>64</b> |                                                    |
|            |                                                                           |           | <b>Total occupational course credits accepted:</b> |
|            |                                                                           |           | <b>45</b>                                          |
|            |                                                                           |           | <b>Additional credit accepted</b>                  |
|            |                                                                           |           | <b>26</b>                                          |
|            | <b>Total transferable credits:</b>                                        | <b>64</b> | <b>Total credits accepted at SHU:</b>              |
|            |                                                                           |           | <b>90</b>                                          |

Courses passed with a C (2.0) or better will transfer "D" grade may be considered within an Associate degree and transferred as a block credit for core courses.

45

**Additional courses to take at NTC to transfer to Sienna Heights University as electives**

| Course No. | Course Title | Credits |
|------------|--------------|---------|
|------------|--------------|---------|

|            |                              |   |
|------------|------------------------------|---|
| 10-801-155 | English Composition II       | 3 |
| 10-806-177 | General Anatomy & Physiology | 4 |
| 10-809-188 | Developmental Psychology     | 3 |
| 10-804-189 | Intro to Statistics          | 3 |

**Courses needed to complete degree at SHU:**

| Course No.                                             | Course Title                                        | Credits   |
|--------------------------------------------------------|-----------------------------------------------------|-----------|
| LAS 300                                                | Living the Liberal Arts                             | 3         |
| PHI or REL                                             | Philosophy or Religious Studies course              | 3         |
| LAS 400                                                | Liberal Arts Capstone                               | 3         |
|                                                        |                                                     |           |
|                                                        | <b>7 courses at the 300/400 level, choose from:</b> | 21        |
|                                                        | Management                                          |           |
|                                                        | Marketing                                           |           |
|                                                        | Business                                            |           |
|                                                        | Sociology                                           |           |
|                                                        | Psychology                                          |           |
|                                                        | Communication                                       |           |
|                                                        | Information Technology                              |           |
|                                                        | Health Care Management                              |           |
|                                                        | Business Administration                             |           |
|                                                        | <b>Minors available in</b>                          |           |
|                                                        | Health care Management                              |           |
|                                                        | Professional Communication                          |           |
|                                                        | Information Technology                              |           |
|                                                        |                                                     |           |
| <b>Total credits needed at SHU to complete degree:</b> |                                                     | <b>30</b> |

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