

2026-2027 ASSOCIATE IN APPLIED SCIENCE (A.A.S) AWC ADVISEMENT CHECK SHEET

To help you decide upon which courses to include in both the major and elective blocks, you and your advisor should consult university requirements (aztransfer.com) for specific required and recommended courses. Sign in to your [Self-Service Student Planning](#) account to load the recommended program map and to track your academic progress.

MANUFACTURING

| | | | |
|---------------------|-------------|----------------|---|
| Student Name | ID # | Advisor | Major Code: AAS.MFG Credits: 64-66 |
|---------------------|-------------|----------------|---|

Students will learn automated manufacturing processes that involve up-to-date technologies to improve production of products from the design to manufacturing stages. This program allows AWC students the opportunity for specialization in the following stackable certificates: American Welding Society (AWS) Certificate, National Center for Construction Education and Research (NCCER), OSHA-30 Construction Safety Card, Drafting, CNC Certificates: Basic Machining and Advanced Machining, Motor Controls, Advanced Motor Controls, and Power Generation.

| Required Major Courses (42-44 Credits) | | Cr | Sem | Notes |
|--|--|----|-----|-------|
| CNC 101 | CNC Machine Operator | 3 | | |
| CNC 201 | Computer Aided Programming for CNC Machines | 3 | | |
| DFT 100 | AutoCad 1- Drafting | 3 | | |
| DFT 180 | CAD with Solidworks | 3 | | |
| ECT 105 | Basic Electricity | 3 | | |
| ECT 210 | Control Circuits | 4 | | |
| ECT 230 | Programmable Logic Controllers | 3 | | |
| ECT 240 | Power Generation Operation, Maintenance & Repair | 3 | | |
| MFG 185 | Quality Control and Inspection | 3 | | |
| MFG 195 | Materials Science and Metallurgy | 3 | | |
| MFG 201 | Machinery/Indust. Valve & Pump, Maintenance & Repair | 3 | | |
| TEC 125 | 10-Hour Construction Card OR | 1 | | |
| TEC 165 | Employee and Occupational Safety | 3 | | |
| WLD 109 | Techniques in Gas Metal Arc Welding | 3 | | |
| WLD 201 | Automation for metals Joining and Severing Processes | 4 | | |

| General Education Requirements (22 Credits) | | Cr | Sem | Notes |
|---|--|----|-----|-------|
|---|--|----|-----|-------|

See the AAS GE course list in the current catalog for selection of courses.

| Written and Oral Communication (6 credits) | | Cr | Sem | Notes |
|--|--|----|-----|-------|
|--|--|----|-----|-------|

| | | | | |
|----------------|----------------------|---|--|--|
| ENG 101 or 107 | Freshman Composition | 3 | | |
|----------------|----------------------|---|--|--|

Select one more course from the AAS GE Written and Oral Communication categories- consult your advisor or see requirements in Self-Service

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Arts & Humanities (3 credits) | | Cr | Sem | Notes |
|-------------------------------|--|----|-----|-------|
|-------------------------------|--|----|-----|-------|

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Quantitative Reasoning (3 credits) | | Cr | Sem | Notes |
|------------------------------------|--|----|-----|-------|
|------------------------------------|--|----|-----|-------|

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Natural Sciences (4 credits) | | Cr | Sem | Notes |
|------------------------------|--|----|-----|-------|
|------------------------------|--|----|-----|-------|

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Social & Behavioral Sciences (3 credits) | | Cr | Sem | Notes |
|--|--|----|-----|-------|
|--|--|----|-----|-------|

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Institutions of the Americas (3 credits) | | Cr | Sem | Notes |
|--|--|----|-----|-------|
|--|--|----|-----|-------|

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

***Dual Application of Courses** is the sharing of coursework between the AGEC and major or program requirements which allows the student to meet both requirements with a single course. Students must still meet the required number of credits to satisfy the program or degree.

| List any courses used to satisfy program or degree credits due to dual application and or courses that satisfy the Cultural (C) and Global (G) or Historical (H), or Writing Intensive (WI) awareness areas. | Cr | Sem | Notes |
|--|----|-----|-------|
|--|----|-----|-------|

| | | | |
|--|--|--|----------|
| | | | Dual App |
| | | | Dual App |