ASSOCIATE IN APPLIED SCIENCE

❖ 875-APPLIED TECHNOLOGY

875A-OPTION: ADVANCED MANUFACTURING (ATAM)
875H-OPTION: HEALTH SCIENCES (ATHS)
875I-OPTION: INFORMATION TECHNOLOGY (ATIN)
875P-OPTION: PROCESS TECHNOLOGY (ATPT)
875S-OPTION: PROFESSIONAL SERVICES (ATPS)
875U-OPTION: UNMANNED AIRCRAFT SYSTEM (ATUA)

❖ ***These degree options are offered online at www.rsuonline.edu***

Students seeking this degree may enter with a technical specialty gained from completion of technical programs, armed forces programs, or comparable programs that have been evaluated by the American Council on Education's College Credit Recommendation Service. The goal of the Associate in Applied Science in Applied Technology degree program is to provide students with a quality education in a technology area by emphasizing a combination of general education courses and a selection of courses in a technical specialty. The program develops a knowledge base through core courses and selected electives while advancing a generalist view of technology. The specialty courses in this degree will satisfy the technical specialty requirement of the Bachelor of Technology in Applied Technology program offered at Rogers State University.

General Education for all options except Process Technology 20

Communications 6

ENGL 1113 Composition I 3

Select one from the following: 3

ENGL 1213 Composition II
SPCH 1113 Speech Communication

U.S. History and Government 6

POLS 1113 American Federal Government 3

History 3

Select one from the following:

HIST 2483 American History to 1877
HIST 2493 American History since 1877

The University Experience 2

UNIV 1152 The University Experience

Electives (choose from General Education courses) 6

Technical Specialty (9-42 credit hours):
Students will be awarded prior learning block credit for earned industry recognized credentials earned in the following areas. Block credit will be appropriately identified by source and method on the transcript. Industry credentials articulated to block credit will be included on the State Regents Prior Learning Assessment Matrix.

(See four Pathways below)

Technical Related Coursework (0-33 credit hours)
Students are required to complete additional specialized credit hours from disciplines related to their industry certification/licensure so that the number of credit hours completed for the degree total 62.

UNMANNED AIRCRAFT SYSTEMS OPTION
Recommended Courses (9 hours to come from 42 remaining hours)

ACCT 2103 Accounting I – Financial
CS 1113 Microcomputer Applications
ECON 2123 Principles of Microeconomics

12 Technical Related credits must include the following courses:

CS 1213 Introduction to Computing
TECH 1030 Unmanned Aircraft Systems (UAS) Design and Build
TECH 2020 Unmanned Aircraft Systems (UAS) Flight Operations
TECH 2090 Field Internship

Technical Specialty (9-30 credit hours):
Students will be awarded prior learning block credit for earned industry recognized credentials earned in the Unmanned Aircraft systems (drones) industry. Block credit will be appropriately identified by source and method on the transcript. For example, Northeast Technology Center offers drone pilot certification. Industry credentials articulated to block credit will be included on the State Regents Prior Learning Assessment Matrix.

or

Technical Related Coursework (0-30 credit hours):
Students are required to complete additional specialized credit hours from disciplines related to their industry certification/licensure so that the number of credit hours completed for the degree total 60.

Total Credit Hours 62

- **Pathway A - Completion Degree for Industry Professionals with Third-Party Credentials**
    - **Description**
      This pathway would facilitate degree completion by Oklahomans who have earned an industry recognized credential to fulfill a career goal by combining general education course work with specific technical knowledge and skills in preparation for employment or career advancement.
    - **Source of Credit**
      A minimum of 9 credit hours in a technical specialty would be awarded via PLA, as determined by evaluation of industry recognized credentials. The remainder of the degree requirements would be completed through RSU coursework, with transfer credit applied as appropriate.
- **Pathway B - Completion Degree for Former CareerTech Students**
    - **Description**
      This pathway would facilitate degree completion by former Oklahoma CareerTech students to fulfill a career goal by combining general education course work with specific technical knowledge and skills in preparation for employment or career advancement.
    - **Source of Credit**
      A minimum of 9 credit hours in a technical specialty would be awarded via PLA (as determined by evaluation of industry recognized credentials) and/or approved technical transfer credit from an Oklahoma CareerTech center. The remainder of the degree requirements would be completed through RSU coursework, with transfer credit applied as appropriate.
    - **Rationale**
      The statewide Technical Transfer Matrix serves to allow CareerTech students to leverage their training toward an AAS degree in those instances where educational preparation aligns with the rigor and learning outcomes of college-level coursework, but may not lead to an industry recognized credential. The courses included on the statewide Technical Transfer Matrix have been evaluated and validated by faculty subject experts at each of the receiving institutions. Allowing students to leverage their CareerTech learning experiences not only via PLA, but also through the transfer of approved technical transfer, would strengthen pathways to degree completion from Oklahoma's CareerTech system to higher education institutions.
- **Pathway C - Completion Degree for Previous AAS Students**
    - **Description**
      This pathway would facilitate degree completion by previous students who were unable to complete their chosen AAS degree prior to leaving the institution. Students would be required to complete a minimum of 9 credit hours in a technical specialty (to align with the minimum 9 credit hour requirement included in the original degree structure), with the remaining 33 credit hours comprised of additional technical specialty and/or related technical coursework.
    - **Source of Credit**
      May be completed entirely through college technical coursework; however, PLA and transfer credit may be applied, as appropriate.
    - **Rationale**
      Utilization of the AAS in Applied Technology in this manner would provide a degree completion pathway for former AAS students who are unable to take advantage of the AS in Enterprise Development degree completion program. These are students who went to work prior to degree completion or stopped out due to family or other obligations. Providing these students with the option of applying their previously earned college credit toward the AAS in Applied Technology would allow them to complete a credential that would support their career advancement and serve to support Oklahoma's degree completion initiative.
- **Pathway D – New and Cross-Disciplinary Degree with Opportunities to Pilot New Programming**
    - **Description**
      This pathway would provide a degree option for students who need to complete cross-disciplinary studies to serve a current or emerging industry need not accommodated by any existing programs. Students would be required to complete a minimum of 9 credit hours in a technical specialty (to align with the minimum 9 credit hour requirement included in the original degree structure), with the remaining 33 credit hours comprised of additional technical specialty and/or related technical coursework.
    - **Source of Credit**
      May be completed entirely through college coursework; however, PLA and transfer credit may be applied, as appropriate.
    - **Rationale**
      This pathway would facilitate degree completion by students who wish to pursue careers in current and emergent cross-disciplinary occupations not currently served by existing program offerings.
      During RSU's academic realignment process, discussions with the institution's industry partners, faculty and academic leaders revealed a growing need to provide technical training for a number of current and emergent cross-disciplinary occupations in fields

such as Process Technology and Unmanned Aircraft Systems. Utilization of the AAS in Applied Technology to provide cross-disciplinary instruction for these students would not only allow RSU to serve additional stakeholders with existing institutional resources, it would also provide a platform in which to pilot potential cross-disciplinary programs to determine their viability and demand prior to implementation.

PROCESS TECHNOLOGY OPTION

General Education.....21
Communications.....6
ENGL 1113 Composition I 3
Select one from the following: 3
ENGL 1213 Composition II
SPCH 1113 Speech Communication

U.S. History and Government 6
POLS 1113 American Federal Government 3
History 3
Select one from the following:
HIST 2483 American History to 1877
HIST 2493 American History since 1877

Science and Math 7
MATH 1513 College Algebra
PHYS 1014 General Physical Science

The University Experience 2
UNIV 1152 The University Experience

Technical Specialty 28
PTEC 1003 Introduction to PTEC
PTEC 2013 Safety, Health, and Environment
PTEC 2023 Process Quality
PTEC 2124 Equipment
PTEC 1214 Instrumentation
PTEC 2134 Systems
PTEC 2224 Operations
PTEC 1513 Internship in PTEC

Remaining 12 hours to be selected from Technical Specialty PLA, Technical Related Coursework, and/or *recommended* courses below:

Recommended Courses (9 hours to come from 40 remaining hours)

ACCT 2103 Accounting I – Financial
CS 1113 Microcomputer Applications
ECON 2123 Principles of Microeconomics

Total Credit Hours.....61

Note: Pathways information does not apply to Process Technology Option.