

Washburn Tech

Advanced Systems Technology (AST) Certificate to AS and BAS

- Technical Certificate – 48 hours, courses listed below, earned at Washburn Tech.
- **Associate of Science, in Industrial Technology** additional 25-27 hours at Washburn University
- **Bachelors of Applied Science, in Technology Administration with minor in Business Administration** additional 69 hours at Washburn University. Contact the School of Applied Studies for more details.



CERTIFICATE (ADVANCED SYSTEMS TECHNOLOGY)

Washburn Tech

Co-requisites (6 credits required)

MAT 101	Tech Math I	(3)
MAT 102	Tech Math II	3
PST 101	Applied Physics	3

Program Courses

IND104	Basic Electricity I	3
IND108	Mechanical Systems I	3
IND112	Fluid Power I	3
IND116	Lathe/Mill/Grind for I.M.	3
IND144	Basic Electricity II	3
IND148	Mechanical Systems II	3
IND152	Electrical Control Systems I	3
IND156	Welding SMAW	3
IND204	Electrical Control Systems II	3
IND208	Fluid Power II	3
IND212	Electrical Control Systems III	3
IND216	Programmable Logic Controllers I	3
IND244	Process Control	3
IND248	Programmable Logic Controllers II	3
IND252	Robotics I	3
IND256	Robotics II	3

Total Certificate Credit Hours 48

CED101	College Skills	1
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ASSOCIATE OF SCIENCE (INDUSTRIAL TECHNOLOGY)

REQUIRED COURSEWORK

Major Requirement (3 credits)

TA310	Technology and Society	3
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Core Requirements (7-9 credits)

EN101	Freshman Composition	3
WU101	The Washburn Experience or CED 101 College Skills	1-3
MA112	Essential Mathematics or MA116 College Algebra	3

General Education Requirements (15 credits)

Social Sciences (2 of the following: PY100, SO100, or AN112)	6
Natural Sciences	3
Humanities (2 disciplines, Must include 3 hours in either Arts, Music, or Theatre)	6

Total Associate Credit Hours (Washburn) 25-27

Total Credit Hours for Associate of Science 73-75



BACHELOR OF APPLIED SCIENCE (TECHNOLOGY ADMINISTRATION)

CURRICULUM REQUIREMENTS

73-75 Credits from AS degree

Technology Core (15 credits required)

TA300	Evolution and Development of Technology	3
TA320	System Design, Assessment and Evaluation	3
TA330	Safety Analysis and Quality Assurance	3
TA400	Technology Administration	3
TA420	Technology Project – Capstone	3

Professional Development (6 credits required)

(Select two from the following)

TA340	Technology Policy	3
TA360	Independent Study	3
TA370	Internship	3
TA380	Technology and the Future	3
TA381	Technology and Ecology	3
TA390	Current Issues in Technology	3

Administration Core (15 credits required)

BU250	Management Information Systems or equivalent	3
AC224	Financial Accounting or equivalent course	3
BU360	Marketing or BU 342 Organization & Management	3
BU345	Human Resources Management	3
BU342	Organizational Behavior	3

Must select two courses from the following: (6 credits required)

300/400 level business courses (if pursuing Business minor)	
300/400 level public administration courses	
300/400 level technology administration courses	6

Additional Core/General Education Requirements

Beyond Associate of Science (24 credits required)

EN300	Advanced Composition	3
Social Science		6
EC200	Principles of Macroeconomics	
EC201	Principles of Microeconomics	
Natural Science and Mathematics		9
(Must include 2 non-math courses, Max of 8 hours or 2 courses per discipline)		
Humanities (Max of 6 hours per discipline)		6

Additional Upper Division Electives to reach 45 credits (3 credits)

Total Additional Baccalaureate Credit Hours (Washburn) 69

Total Credit Hours for Bachelors of Applied Science 142-144