4-year Degree Programs for Workforce Development
Did you know:

- AAS degrees CAN transfer to a 4-year Bachelor Degree program at 3 universities in Kansas
- Workforce-ready, highly skill students with a technical education CAN earn a degree for advancement while saving time, money and opportunity costs.
- Kansas needs 60% of workforce with postsecondary degrees by 2020, currently at 44%.  (MHEC 2017)
- As level of education increases, communities and society also benefits.  (Ma, J. et.al. 2016)
Student Success through Community College to University Articulation: AAS to BAS

Developed by

Dr. Tim Dawsey, Dean
College of Technology

and

Dr. Andy Klenke, Chairman
Department of Technology & Workforce Learning

Pittsburg State University
Overview of the BAS

- What is a BAS in Technology?
- Why a BAS in Technology?
- BAS in a nutshell
  - eligibility
  - minimum requirements to graduate
- Sample BAS in Technology program
  - Generic program
  - CAT ThinkBIGGER D&HE
What is the BAS in Technology?

- The Bachelor of Applied Science in Technology degree is a true 2+2 (2-year) completion degree that provides hands-on training for a real-world job.

- It includes technology management, theory, logic, leadership, and business skills to broaden candidates’ knowledge, better prepare them for management opportunities, and make them a more versatile employee.

- Designed specifically to provide upward career path for Associate of Applied Science degree recipients.
Why the BAS in Technology?

- Kansas Board of Regents wanted greater cooperation between 2 and 4 year programs.

- Community colleges requested a true 2+2 more closely related to AAS technical degree (not generic).

- Graduates with an AAS were identified as underserved—needed career path.
Why the BAS in Technology? (cont-)

- Direct articulated programs were typically a 2 + 3 or even 3 ½ year plan, and required constant updating.

- Industrial partners asked for this type of program, specifically John Deere, CAT (e.g., ThinkBIGGER D&HE)
BAS in a Nutshell: Eligibility?

- Students to be eligible must GRADUATE from an Associates of Applied Science program from an accredited institution.

- To be eligible, the student must have graduated with a minimum of a 2.5 GPA.
BAS in a Nutshell: Graduate Requirements?

Student must complete:

- A minimum of 60 hours from four-year institution
- 45 hours of upper division courses
- A minimum of 30 hours at PSU
- A minimum of 124 semester hours are required for graduation (60 hours must be taken at a four year institution).
- A minimum of a 2.0 GPA in courses taken at the four year institution level
Sample BAS in Technology Program: Generic

- **36-39 hrs of General Education**
- **40 hrs of Technical Coursework from AAS College**
- **9 hrs of Business**
  - MGMKT 327 Org Theory & Behavior
  - MGMKT 444 Legal & Social Environ. of Business
  - MGMKT 330 Basic Marketing
- **12 hrs of Tech Mgmt**
  - TTED 606 Industrial Supervision
  - EST 603 Industrial Safety
  - TM 500 Industrial Organization. & Tech Management
  - TM 530 Facility Maintenance & Management

- **9 hrs Technical Support**
  - ___ 300 Internship
  - MFGET 405 Quality Control
  - ___ 399 ___ Prof. Development & ___ 699 Senior Seminar (or) ___ ___ Capstone course

- **9 hrs Technical Electives**
  - ___ ___ __________________
  - ___ ___ __________________
  - ___ ___ __________________

- **6-9 hrs Electives**
Sample BAS in Technology Program: ThinkBIGGER D&HE

- 36-39 hrs of General Education
- 40 hrs of Technical Coursework from ThinkBIG
- 9 hrs of Business
  - MGMKT 327 org Theory & Behavior
  - MGMKT 444 Legal & Social Environ. of Business
  - MGMKT 330 Basic Marketing
- 12 hrs of Tech Mgmt
  - TTED 606 Industrial Supervision
  - EST 603 Industrial Safety
  - AT 690 Automotive Merchandising (or AT 691)
  - TM 500 Industrial Organization & Tech Management

- 15 hrs Technical Support
  - MFGET 405 Quality Control
  - AT 399 Auto Prof Developm’t
  - AT 699 Senior Seminar
  - AT 621 Advanced Diesel Electronics
  - AT 300 Internship
  - AT 400 Internship

- 9 hrs Technical Elective
  - AT 630 On-highway Systems
  - AT 640 Off Highway Systems
  - AT 654 Advanced Hydraulics
  - AT 519 Fuels, Combustion, & Lubricants
Listing of customized 2+2s with each Kansas Community College
## Hutchinson Community College Associate of Applied Science and Technology Management

Kansas State University Polytechnic offers a Bachelor of Science degree in Technology Management through online education. This degree completion program is designed for students who have completed an Associate of Applied Science degree at Hutchinson Community College. The Technology Management degree combines a university-level marketable skill with the management education necessary to allow rapid advancement in industry.

<table>
<thead>
<tr>
<th>Associate of Applied Science</th>
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<tbody>
<tr>
<td>Up to 60 hours can be applied to the bachelor degree.</td>
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</table>

- Agricultural Diesel Mechanics
- Auto Collision Repair Technology
- Automation Engineer Technology
- Automotive Technology
- Computer Drafting Tech. - Archit. CAD
- Computer Support Specialist
- Construction - Electrical Apprenticeship
- Construction - Residential
- Criminal Justice Administration
- Early Childhood Education
- Emergency Medical Science - Paramedic
- Farm and Ranch Management
- Fire Science
- Health Information Management
- Machine Technology
- Manufacturing Engineering Technology
- Media Communication and Production
- Networking
- Networking - Security
- Nursing - ADN
- Nursing - LPN to RN Bridge
- Nursing - Paramedic to RN Bridge
- Paralegal/Legal Assistant
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Therapist
- Visual Media Design - Animation/Game Devel.
- Visual Media Design - Graph. Design/Web Tech.
- Web Development
- Welding Technology

<table>
<thead>
<tr>
<th>Area of Concentration</th>
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<tbody>
<tr>
<td>39 hours required in one A.A.S. degree area</td>
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</table>

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credit Hours</th>
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<table>
<thead>
<tr>
<th>General Education</th>
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</table>

**Hutchinson Community College**

Choose up to 21 credit hours from HCC applicable to the A.A.S. degree, the remaining courses in this list will be taken at K-State.

- Computer Elective
- EC 100 Macroeconomics
- EC 101 Microeconomics
- EN 101 English Composition I
- EN 102 English Composition II
- SH 101 Public Speaking
- MA 105 College Algebra
- Natural Science and Lab
- 300+ Humanities Elective
- Options: AR 106, EN 207, EN 202H, EN 203H, EN 214
- 300+ Social Science
- Options: GO 101, GO 102, SO 101, SO 201

**General Education Kansas State University Polytechnic**

- BUS 251 Financial Accounting
- BUS 252 Managerial Accounting
- BUS 315 Supervisory Management
- MANGT 366 Info Tech for Business
- MANGT 420 Management Concepts
- Business / Management Course
- Business / Management Course
- Business / Management Course
- Business / Management Course
- Business / Management Course

<table>
<thead>
<tr>
<th>Business Management Core</th>
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</table>

**Kansas State University Polytechnic**

- BUS 251 Financial Accounting
- BUS 252 Managerial Accounting
- BUS 315 Supervisory Management
- MANGT 366 Info Tech for Business
- MANGT 420 Management Concepts
- Business / Management Course
- Business / Management Course
- Business / Management Course
- Business / Management Course
- Business / Management Course

<table>
<thead>
<tr>
<th>Total Credit Hours Taken</th>
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</table>

**Hours Applied to Technology Management Degree: 121**

### Get Started
polytechnic.k-state.edu/online/techmanagement
Phone: 855-552-0079
Email: profed@k-state.edu

This degree map has been reviewed and accepted by both schools as an illustration, which is subject to change. Contact a K-State Polytechnic Advisor before committing to a transfer program.

Rev. 03/2015
Associate of Applied Science
Up to 60 hours can be applied to the bachelor degree.

- Agricultural Diesel Mechanics
- Auto Collision Repair Technology
- Automation Engineer Technology
- Automotive Technology
- Computer Drafting Tech. - Archit. CAD
- Computer Support Specialist
- Construction - Electrical Apprenticeship
- Construction - Residential
- Criminal Justice Administration
- Early Childhood Education
- Emergency Medical Science - Paramedic
- Farm and Ranch Management
- Fire Science
- Health Information Management
- Machine Technology
- Manufacturing Engineering Technology
- Media Communication and Production
- Networking
- Networking - Security
- Nursing - ADN
- Nursing - LPN to RN Bridge
- Nursing - Paramedic to RN Bridge
- Paralegal/Legal Assistant
- Physical Therapist Assistant
- Radiologic Technology
- Respiratory Therapist
- Visual Media Design - Animation/Game Devel.
- Visual Media Design - Graph. Design/Web Tech.
- Web Development
- Welding Technology

Listing of AAS degree programs from the community college which will work well with the K-State Technology Management degree
Area of Concentration
39 hours required in one A.A.S. degree area

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Credit Hours</th>
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</table>

General Education
Hutchinson Community College
Choose up to 21 credit hours from HCC applicable to the A.A.S. degree, the remaining courses in this list will be taken at K-State.

- Computer Elective
- EC 100 Macroeconomics
- EC 101 Microeconomics
- EN 101 English Composition I
- EN 102 English Composition II
- SH 101 Public Speaking
- MA 106 College Algebra
- Natural Science and Lab
- 300+ Humanities Elective
- Options: AR 106, EN 207, EN 202H, EN 203H, EN 214
- 300+ Social Science
- Options: GO 101, GO 102, SO 101, SO 201
Listing of business management and general education courses taken from Kansas State University.

General Education
Kansas State University Polytechnic
- Computer Elective* 3
- ENGL 302 Technical Writing 3
- MATH 205 General Calculus and Linear Alg. 3
- Natural Science Elective* 3
- STAT 325 Intro to Statistics 3
- 300+ Social Science Elective* 3
- 300+ Humanities Elective* 3
- 300+ Communication Elective 3

Business Management Core
Kansas State University Polytechnic
- BUS 251 Financial Accounting 3
- BUS 252 Managerial Accounting 3
- BUS 315 Supervisory Management 3
- MANGT 366 Info Tech for Business 3
- MANGT 420 Management Concepts 3
- Business / Management Course^ 3
- Business / Management Course^ 3
- Business / Management Course^ 3
- Business / Management Course^ 3
- Business / Management Course^ 3

^ Choose from COT 499, FINAN 450, MANGT 390, 421, 530, 531, MKTG 400, 542
*Consult a K-State Polytechnic representative regarding the courses above and upper-level course requirements.

Total Credit Hours Taken:
Hours Applied to Technology Management Degree: 121
Rules governing bachelor’s degrees:

a. Must have at least 60 credit hours earned from an institution where the majority of degrees granted are at the bachelor’s degree level or higher;
b. Must include at least 45 credit hours at the junior level (numbered 300) or higher;
c. Must successfully complete credit-bearing courses / experiences to cover all of the K-State 8 areas.
d. Each student must complete at least 30 K-State credits to be considered for a degree. Further, the student must complete 20 of the last 30 hours of credit at K-State.
Enrollment Numbers

Data from Fall 2009-Summer 2018

435  Unique Students Enrolled
154  Graduated (35.4%)
26% Military affiliation
20% Live outside the state of Kansas
62% Taking classes in online format
67% Male
Jennifer Pfortmiller  
Academic Program Coord.  
K-State Global Campus  
jdunn@k-state.edu  
620-786-1188  
http://global.k-state.edu

Jordan Funk  
Academic Program Coord.  
Kansas State Polytechnic  
jordanf@ksu.edu  
(785) 826-8567  
https://www.completek-state.com/
FORT HAYS STATE UNIVERSITY
DEPARTMENT OF APPLIED TECHNOLOGY
BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN TECHNOLOGY LEADERSHIP
PROGRAM DESCRIPTION

• A 121 HOUR, INTERDISCIPLINARY DEGREE WHICH FOCUSES ON TECHNOLOGY LEADERSHIP.

• THE PROGRAM IS BUILT UPON A STUDENT’S ASSOCIATE OF APPLIED SCIENCE DEGREE WHICH SUPPORTS THEIR AREA OF APPLIED SPECIALIZATION WHILE AT THE SAME TIME ALLOWING THEM TO GAIN TECHNOLOGY LEADERSHIP SKILLS
GOALS OF THE TECHNOLOGY LEADERSHIP PROGRAM

• TO PROVIDE A SEAMLESS TRANSFER PROGRAM

• TO PROVIDE BUSINESS AND INDUSTRY WITH QUALITY STUDENTS WHO HAVE AN AREA OF APPLIED SPECIALIZATION ALONG WITH TECHNOLOGY AND LEADERSHIP EXPERIENCES

• TO PROVIDE BUSINESS AND INDUSTRY WITH QUALITY CANDIDATES ABLE TO LEAD AND MANAGE IN THEIR CHOSEN TECHNOLOGY AREA.

• TO PROVIDE A WORKFORCE BACCALAUREATE DEGREE AVAILABLE TO ALL STUDENTS BY PROVIDING THE PROGRAM ON-LINE
GOALS OF THE TECHNOLOGY LEADERSHIP PROGRAM

• TO PROVIDE TRANSFERABILITY OF ALL REQUIRED COURSES INTO A BS PROGRAM WITHOUT THE LOSS OF CREDIT HOURS

• TO PROVIDE STUDENTS WITH THE OPPORTUNITY TO EXPAND BEYOND THEIR FIELD OF KNOWLEDGE ACQUIRED IN AN AAS DEGREE
PROGRAM OF STUDY

TWO PARTS OF THE PROGRAM

• SPECIALIZATION AND GENERAL EDUCATION FROM COMMUNITY AND TECHNICAL COLLEGES – AROUND 60 HOURS

• GENERAL EDUCATION AND TECHNOLOGY LEADERSHIP FROM FORT HAYS STATE – AROUND 60 HOURS
OBJECTIVES OF PROGRAM FOR STUDENTS

• IMPROVE MARKETABILITY FOR STUDENTS
• PROVIDE STUDENTS WITH THE LEADERSHIP AND MANAGEMENT SKILLS THAT ARE ESSENTIAL IN TODAY’S WORKFORCE
• PROVIDE STUDENTS WITH ANALYTICAL AND PROBLEM SOLVING SKILLS
• PROVIDE STUDENTS WITH THE SKILLS AND KNOWLEDGE NECESSARY TO THINK CRITICALLY, MAKE DECISIONS, COMMUNICATE AND SUCCESSFULLY WORK IN TEAMS
**WHAT DOES THE PROGRAM LOOK LIKE?**

General Education classes (AKA Foundational Studies. May be taken as part of the AAS program. May also be taken from FHSU or an accredited institution) 12 Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>English Composition I</td>
<td>3</td>
<td>REQUIRED</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English Composition II ENG</td>
<td>3</td>
<td>REQUIRED</td>
</tr>
<tr>
<td>COMM 100</td>
<td>Fund. of Oral Communications</td>
<td>3</td>
<td>REQUIRED</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Algebra (preferred) OR other College level math</td>
<td>3</td>
<td>REQUIRED</td>
</tr>
</tbody>
</table>
# General Education (Suggested)  
(12 more upper division needed here)

<table>
<thead>
<tr>
<th>12 hours of Humanities courses from at least three of the disciplines</th>
<th>39 Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMM</strong> 318 Intro to Organizational Communication</td>
<td>Humanities classes. Include 1 upper division class</td>
</tr>
<tr>
<td><strong>ENG</strong> 125 Any lower division gen. ed. Humanities class</td>
<td></td>
</tr>
<tr>
<td><strong>ART</strong> 180 Any lower division gen. ed. Humanities class</td>
<td></td>
</tr>
<tr>
<td><strong>PHIL</strong> 100 Any lower division class gen. ed. Humanities class</td>
<td></td>
</tr>
</tbody>
</table>

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<thead>
<tr>
<th>9 hours of Natural and Physical science courses from at least two of the disciplines (lecture with a lab)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHEM</strong> 100 Lower division gen. ed. Nat. &amp; Physical Science class</td>
<td>Natural and Physical Science classes include two sciences each with a lab</td>
</tr>
<tr>
<td><strong>CHEM</strong> 105 Lower division gen. ed. Nat. &amp; Physical Science LAB</td>
<td></td>
</tr>
<tr>
<td><strong>PHYS</strong> 111 Lower division gen. ed. Nat. &amp; Physical Science class</td>
<td></td>
</tr>
<tr>
<td><strong>PHYS</strong> 111L Lower division gen. ed. Nat. &amp; Physical Science LAB</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>12 hours of Social &amp; Behavioral Sciences courses from at least 3 of the disciplines</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ECFI</strong> 201 Any lower division gen. ed. Social &amp; Behavioral Science class</td>
<td>Social Behavioral classes. Include 2 upper division class</td>
</tr>
<tr>
<td><strong>PSY</strong> 100 Any lower division gen. ed. Social &amp; Behavioral Science class</td>
<td></td>
</tr>
<tr>
<td><strong>PSY</strong> 340 Social Psychology (or another upper division Social &amp; Behavioral Science)</td>
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</tr>
<tr>
<td><strong>IDS</strong> 350 Diversity in the U.S.(or another upper division Social &amp; Behavioral Science)</td>
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</tr>
<tr>
<td><strong>IDS</strong> 390 Technology in Society</td>
<td>Integrative</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>COMM 606</td>
<td>Conflict Management Through Comm. (OR BCOM 301 Business Comm.)</td>
</tr>
<tr>
<td>IDS 401</td>
<td>Ethical Issues in the Professions and Business (OR IDS 301 Bioethics)</td>
</tr>
<tr>
<td>LDRS 300</td>
<td>Introduction into Leadership Concepts</td>
</tr>
<tr>
<td>LDRS 302</td>
<td>Introduction into Leadership Behavior</td>
</tr>
<tr>
<td>LDRS 306</td>
<td>Leadership and Team Dynamics</td>
</tr>
<tr>
<td>MGT 301</td>
<td>Management Principles</td>
</tr>
<tr>
<td>MIS 304</td>
<td>Management Information Sys. (OR approved upper division MIS course)</td>
</tr>
<tr>
<td>MKT 301</td>
<td>Marketing Principles</td>
</tr>
<tr>
<td>TECS 480</td>
<td>Industrial Management (OR MGT 602 Production &amp; Operations Mgt.)</td>
</tr>
<tr>
<td>TECS 495</td>
<td>Training and Instructional Sys. (OR MGT 614 Training &amp; Development)</td>
</tr>
<tr>
<td>TECS 490</td>
<td>Occupational Safety, Health, and Liability</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>---------------------------------------------------------------</td>
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<tr>
<td>BUED 613</td>
<td>Organization &amp; Admin. of CTE Programs</td>
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<tr>
<td>IDS 300</td>
<td>Elective: Interdisciplinary Studies (Upper Division)</td>
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<tr>
<td>LDRS 300</td>
<td>Introduction into Leadership Concepts</td>
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<tr>
<td>LDRS 302</td>
<td>Introduction into Leadership Behavior</td>
</tr>
<tr>
<td>LDRS 306</td>
<td>Leadership and Team Dynamics</td>
</tr>
<tr>
<td>TECS 301</td>
<td>Introduction to Instructional Technology</td>
</tr>
<tr>
<td>TECS 312</td>
<td>Graphic Comm. Techniques (OR Approved Elective: Technology or Education)</td>
</tr>
<tr>
<td>TECS 460</td>
<td>Teaching Technology Education</td>
</tr>
<tr>
<td>TECS 490</td>
<td>Occupational Safety, Health, and Liability</td>
</tr>
<tr>
<td>TEEL 340</td>
<td>The Effective Classroom (OR TEEL 350 Curriculum &amp; Assessment)</td>
</tr>
<tr>
<td>TESP 302</td>
<td>Educating Exceptional Students</td>
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</tbody>
</table>
**SUMMARY OF POSSIBLE TRANSFER CLASSES IN A CANDIDATE’S APPLIED TECHNOLOGY AREA**

TOTAL NUMBER OF APPLIED TECHNOLOGY TRANSFER HOURS: _____ HOURS

<table>
<thead>
<tr>
<th>Applied Technology Courses in ________________ Technology from ________________________________ College</th>
<th>3 Hours</th>
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<tbody>
<tr>
<td>Prefix</td>
<td>Number</td>
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</table>
REMEMBER, 40, 45, 45, 60 AND 30.

- 40 HOURS ARE TRANSFERRED FROM THE TECHNOLOGY TRAINING DIRECTLY INTO THE PROGRAM.
- 45 HOURS OF UPPER DIVISION COURSES (300 OR HIGHER).
- 45 HOURS OF THE REQUIRED GENERAL EDUCATION CLASSES.
- 60 HOURS FROM AN ACCREDITED 4 YEAR UNIVERSITY OR COLLEGE.
- 30 HOURS FROM FHSU.
- THE REQUIREMENTS ARE ACTUALLY BUILT INTO THE PROGRAM.
BY THE NUMBERS

Number of BSTL Degrees by Academic Year
BY THE NUMBERS

20th Day Fall enrollment
BY THE NUMBERS: FALL 2003 – SUMMER 2018

• 244 ENROLLED
• 89 GRADUATED
• 31 VETERANS OR ACTIVE DUTY MILITARY
• 74 OUTSIDE OF THE STATE OF KANSAS
CONTACT:

JOSEPH R. CHRÉTIEN
ADVISOR,
BTL PROGRAM COORDINATOR
APPLIED TECHNOLOGY
FORT HAYS STATE UNIVERSITY
jchretie@fhsu.edu
Questions?