

# BACHELOR OF APPLIED SCIENCE

You're halfway there. Take the next step.



Earn a Bachelor of Applied Science (BAS) at Boise State University.

The BAS complements and builds on your technical associate degree (AAS) and is the perfect next step to advance your career.



Complete your degree online or in-person



Full- or part-time options to fit your schedule



Maximize your technical education

*“The BAS program has allowed me to develop different skills and set me up to be a leader and supervisor. It has prepared me for my future.”*

- Brandon H., Bachelor of Applied Science Student



BOISE STATE UNIVERSITY

Contact us for more information:

[appliedscience@boisestate.edu](mailto:appliedscience@boisestate.edu)

(208) 426-3496

[appliedscience.boisestate.edu](http://appliedscience.boisestate.edu)

# TRANSFER GUIDE

Associate of Applied Science,  
Advanced Mechatronics  
Engineering Technology



## 1st Semester

Course Title	Credits
AMET 120 Basic Electricity and DC Electronics	4
AMET 120L Basic Electricity and DC Electronics Lab	2
AMET 130 AC Electronics	4
AMET 130L AC Electronics Lab	2
AMET 135 Industry Hand Tool Basics and Workplace Safety	1
PHYS 100 Survey of Physics	4

## 2nd Semester

Course Title	Credits
AMET 140 Analog Electronics	3
AMET 140L Analog Electronics Lab	2
AMET 150 Digital Electronics	3
AMET 150L Digital Electronics Lab	2
AMET 195 Fundamentals of Programming and Networking	2
GEM 1 Written Communication	3
GEM 2 Oral Communication	3

## 3rd Semester

Course Title	Credits
AMET 200 Programmable Logic Controllers	2
AMET 200L Programmable Logic Controllers Lab	1
AMET 210 Microprocessor - Based Embedded Controllers	2
AMET 210L Microprocessor - Based Embedded Controllers Lab	1
AMET 220 Industrial Automated Controls & Instrumentation	3
AMET 220L Industrial Automated Controls & Instrumentation Lab	1
AMET 230 Industrial Robotics	2
AMET 230L Industrial Robotics Lab	1
GEM 3 Mathematical Ways of Knowing	3
AMET 235 Fluid Power Systems	1

## 4th Semester

Course Title	Credits
AMET 240 Modulation and Transmission Technology	2
AMET 240L Modulation and Transmission Technology Lab	1
AMET 245 Communications Systems Technology	2
AMET 245L Communications Systems Technology Lab	1
AMET 250 Industrial Certification	1
AMET 280 Renewable & Traditional Energy Technology	3
AMET 280L Renewable & Traditional Energy Technology Lab	1
AMET 290 Applied Mechatronics	3
GEM 6 Social & Behavioral Ways of Knowing	3

Bachelor of Applied Science,  
Business Bridge to Career Minor  
Applied Leadership Certificate



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## 1st Semester

Course Title	Credits
BAS 305 Introduction to the Applied Sciences	1
ENGL 102 Intro to College Writing and Research	3
DLV Visual and Performing Arts	3
DLL Literature and Humanities	3
DLN Natural, Physical, and Applied Science	3

## 2nd Semester

Course Title	Credits
UF 200 Civic and Ethical Foundations	3
BAS 310 Communication in the Applied Sciences	3
BUSBTC 301 Business Foundations 1	3
BUSBTC 302 Business Foundations 2	3
LEAD 325 Foundations of Leadership	3

## 3rd Semester

Course Title	Credits
BAS 425 Creating a Culture of Safety	3
BUSBTC 310 Creating Value for People	3
BUSBTC 320 Creating Value for Customers	3
BUSBTC 330 Creating Value through Investment	3
LEAD 326 The Practice of Leadership	3

## 4th Semester

Course Title	Credits
BAS 495 Capstone in the Applied Sciences	3
BUSBTC 410 Business Analysis	3
MDS 410 Case Studies in Leadership	3
LEAD 490 Capstone in Leadership	3
Elective	3

*\*This is a sample degree pathway.*



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