

B.A.S. Robotics Engineering Technology

(4 Years)

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1		6
Objective 2		3
Objective 3		3
Objective 4		6
Objective 5		7
Objective 6		6
Students must fulfill Objective 7 or Objective 8		3
Objective 7		
Objective 8		
Objective 9		3
Total Credits		37

In addition to 8 of the 9 General Education Objectives (a minimum of 36 credits--see the General Education Requirements (<https://coursecat.isu.edu/undergraduate/academicinformation/generaleducation/>) in the Academic Information section of this catalog), Robotics Engineering Technology majors are required to take the following courses:

Code	Title	Credits
Required Courses:		
ENGL 3307	Professional and Technical Writing	3
PHYS 1101 & 1101L or PHYS 1100 or PHYS 1111/1113	Elements of Physics and Elements of Physics Laboratory Essentials of Physics General Physics I	4
RCET 1153A	Basic Electricity and DC Circuit Theory	4
RCET 1153B	Basic Electricity and AC Circuit Theory	4
RCET 1154A	Analog Control Devices Theory	4
RCET 1154B	Digital Control Devices Theory	4
RCET 1155A	Basic Electricity and DC Circuit Lab	2
RCET 1155B	Basic Electricity and AC Circuit Lab	2
RCET 1156A	Analog Control Devices Laboratory	2
RCET 1156B	Digital Control Devices Laboratory	2
RCET 2251	Systems Analog and Digital Theory	6
RCET 2253	Systems Analog and Digital Laboratory	5
RCET 2265	Computer Fundamentals and Introduction to Programming	4
RCET 2267	Radio Frequency Transmission Theory	6
RCET 2268	Radio Frequency Transmission Lab	5
RCET 2271	Introduction to Lab Simulation Software	2
RCET 1372	Calculus for Electronics	4
RCET 3371	Advanced Programming Techniques and GUI Development	4

RCET 3372	Advanced Applications of Calculus for Robotics	4
RCET 3373	Advanced Computer Architecture and Embedded Systems Theory	5
RCET 3374	Advanced Systems Analysis Theory	4
RCET 3375	Advanced Computer Architecture and Embedded Systems Laboratory	5
RCET 3376	Advanced Systems Analysis Theory	5
Select a minimum of 10 credits from the following:		10
RCET 3331	Laser Systems and Optics Theory	
RCET 3332	Laser Systems and Optics Laboratory	
RCET 3370	Electronic Drafting for PCB Design	
RCET 3382	Rapid Prototyping Technologies	
RCET 3383	Advanced Laser Systems and Optics Theory	
RCET 3384	Advanced Laser Systems and Optics Laboratory	
RCET 3396	Independent Study	
RCET 3398	Special Topics	
MGT or OLP Upper Division Courses Numbered 3300-4499		
Total Credits		100

Degree Totals

Code	Title	Credits
Program Admission Requirements		0
General Education		37
Major Requirements (w/o General Education)		96
Free Electives		0
Total Credits		133

For information contact:

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Student Services
RFC Building (Bldg #48)
(208) 282-3939
<http://www.isu.edu/ctech/studentervices/>