

COURSE PREREQUISITES AND RECOMMENDATIONS - Class of 2012

Use the following to evaluate your background and requirements for specific labs as you determine your preferences.

Laboratory -Director	Prerequisite	Recommended
Astronomy & Astrophysics - Mrs. Hennig	Advanced Astronomy: The Solar System or The Universe Or permission from the Lab Director	Both electives are recommended. The prerequisite can be co-requisite with permission of Lab Director.
Automation and Robotics - Mr. Dela Cuesta	Automation and Robotics 1 or 2 Or permission from the Lab Director	One or more of the following: <ul style="list-style-type: none"> ▪ Advanced Analog or Digital Electronics ▪ Prototype Development & Processing <ul style="list-style-type: none"> ▪ Nature of Materials
Life Sciences & Biotechnology - Dr. Cobb	DNA Science I Or permission from the Lab Director	One of the following: <ul style="list-style-type: none"> ▪ DNA Science 2, AP Chemistry, AP Biology
Chemical Analysis - Dr. Kennedy	AP Chemistry Or permission from the Lab Director	<ul style="list-style-type: none"> ▪ Introductory Organic Chemistry with Instrumental Analysis
Communication Systems -Mr. Montgomery	Intro to Communication Systems Or permission from the Lab Director	<ul style="list-style-type: none"> ▪ Advanced Digital and/or Analog Electronics
Computer Systems - Mr. Steuben - Dr. Gabor	AP Computer Science A + Data Structures Artificial Intelligence 1 & 2 Parallel Computing 1 & 2 Or permission from the Lab Director	
Computer Assisted Design - Dr. Walker	Specialized Computer Assisted Design Or permission from the Lab Director	<ul style="list-style-type: none"> ▪ Intro to Engineering ▪ Advanced Architectural Drawing & Design
Energy Systems - Mr. Kemp	Conventional Energy Systems or Alternate Energy Systems or Advanced Digital Electronics Or permission from the Lab Director	One or more of the following: <ul style="list-style-type: none"> • Intro to Engineering • Advanced Analog Electronics • Specialized Computer Assisted Design (CAD)
Microelectronics - Mr. Bell - Mr. Montgomery	Advanced Analog Electronics & Advanced Digital electronics Or permission from the Lab Director	One or more of the following: <ul style="list-style-type: none"> ▪ Automation and Robotics 1 or 2 ▪ Prototyping Development and Processing <ul style="list-style-type: none"> ▪ Advanced Audio Electronics ▪ Advanced Microprocessors Systems
Neuroscience - Dr. Cammer	Neurobiology AP Biology Or permission from the Lab Director	One or more of the following: <ul style="list-style-type: none"> ▪ Advanced Analog Electronics ▪ Advanced Digital Electronics
Optics and Modern Physics - Dr. Dell	One or more of the following: AP Physics or Physics 1 <i>with permission of Lab Director</i>	Also recommended depending on project: <ul style="list-style-type: none"> ▪ Computational Physics ▪ Advanced Digital and/or Analog Electronics <ul style="list-style-type: none"> ▪ AP Chemistry
Oceanography and Geophysical Systems - Mrs. Wu	One or more of the following: Advanced Marine Biology DNA Science I Advanced Digital Electronics Or permission from the Lab Director	<i>Automation and Robotics 1 or 2 Conventional or Alternative Energy Systems Prototype Development & Processing</i>
Prototyping and Engineering Materials - Mr. Behling	Advanced Nature of Materials and/ or Prototyping Development and Processing Or permission from the Lab Director	<ul style="list-style-type: none"> • Specialized Computer Assisted Design (CAD)