

End of Year Report 2018-2019

Participating Schools

- Bloomington High School
- Blue Ridge High School
- Calvary Christian Academy
- Central Catholic High School
- Clinton High School
- Cornerstone Christian Academy
- El Paso-Gridley High School
- Fieldcrest High School
- Heyworth High School
- LeRoy High School
- Lexington High School
- Normal Community High School
- Normal West High School
- Olympia High School
- Ridgeview High School
- Tri-Valley High School
- University High School

The Bloomington Area Career Center (BACC) End-of-Year Report for the 2018-19 school year provides you with a snapshot of the accomplishments and achievements of our students over the past school year. BACC continues to offer excellent educational opportunities for students in the region, with opportunities including dual credit, industry-recognized certifications, skills training, and career exploration. Students exit BACC equipped with skills, and an improved knowledge of different career opportunities, postsecondary/college opportunities, and an improved readiness for the students next steps after high school.

This past year we worked with 616 students. We continue to grow, working to meet students career interests with needs of the communities we serve.

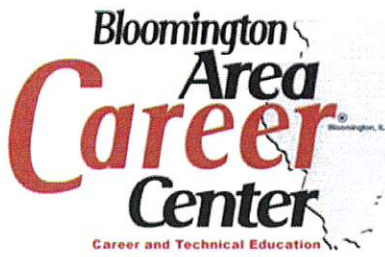
Great partnerships and support from so many lead to the successes of our students, including but not limited to our parents, business and community members, college and postsecondary partners, and the BACC teachers. Our member schools continue to provide us valuable and strong support—including our administrators, counselors, and support staff. On behalf of BACC, I would like to extend a huge “THANK YOU” to all that help educate our BACC students—Today’s Students, and Tomorrow’s Professionals.

Tom Frazier, BACC Director



BACC Facts & Figures

- ▶ Students served in 2018-2019 - 616 (September 15)
- ▶ 518 Industry Recognized Certifications were earned
- ▶ 51 Students were inducted into the Technical Honor Society
- ▶ Resumes developed - 616
- ▶ 322 students earned dual credit
- ▶ Total Dual Credits Earned - 1,842 credit hours, with a value of \$303,710
- ▶ 420 BACC students participated in mock interviews at State Farm, that involved over 120 volunteers



End of Year Report 2018-2019

Additional BACC Facts

- Over 1,675 8th Grade students visited the 10th Annual BACC Career Expo at the Interstate Center
- 55 Business and Postsecondary partners participated in the Career Expo
- All BACC programs have business and industry partners that share their expertise with BACC students
- 176 Students with IEP's were served



Illinois Drafting Educator Competitions

- ◇ 1st place in the IDEA Regional Competition in Architecture CAD - 2D
- ◇ 1st place in the IDEA Regional Competition in Architecture CAD - 3D
- ◇ 1st place in the IDEA Regional Competition in 3D Modeling
- ◇ 2nd place in the IDEA Regional Competition in Architecture Design
- ◇ 2nd place in the IDEA State Competition in Architectural CAD
- ◇ 3rd place in the IDEA State Competition in Revit



Industry Recognized Certifications			
Certifying Institution	Certification	Program (s)	Students Certified
	Certified Nursing Assistant	Nurse Assisting	113
	Sanitation Manager Certification	Culinary Arts	20
	Food Handler Certification	Culinary Arts	27
	OSHA 10	Construction Trades	12
	HIPAA	Nurse Assisting	121
		Fire Science, Nurse Assisting, EMT-Basic	167
	Adobe Illustrator Software Certification	Digital Media	20
	Adobe Photoshop Software Certification	Digital Media	18
		Fire Science	20

BACC Offers Dual Credit Opportunities

Heartland Community College				
BACC Class	HCC Class	Credit Hours	BACC Students Enrolled	Tuition & Fees Saving
Nurse Assisting	NURS 110	8	89	\$120,150
Health Careers & Medical Terminology	Health 110	3	52	\$23,868
Graphic Design & Video Production	Digital Media 101	3	19	\$13,104
	Digital Media 120	3	7	
EMT-Basic	EMT 101	8	26	\$31,824
Computer Technology & Networking	CSCI 101	4	32	\$60,429
	NETW 150	3	3	
	NETW 151	3	33	
	NETW 160	3	33	
	NETW 166	3	3	
Civil Engineering and Architecture	TECH 124	3	2	\$918
Construction Trades	CNST 101	3	21	\$9,639
Metals	MFTG 115	3	2	\$27,387
	TECH 114	3	24	
	WELD 110	3	18	
	WELD 116	3	9	
Total				\$287,319

Illinois Central College				
BACC Class	ICC Class	Credit Hours	BACC Students Enrolled	Tuition & Fees Saving
Fire Science	FSCI 110	3	18	\$10,577
	FSCI 207	3	5	
Total				\$10,577

Joliet Junior College				
BACC Class	ICC Class	Credit Hours	BACC Students Enrolled	Tuition & Fees Saving
Culinary Arts	CA 106	2	19	\$5,814
Total				\$5,814

Grand Total **\$303,710**



End of Year Report 2018-2019

BACC Program Facts

Automotive Technology

- * 43 students were trained in general maintenance content, including oil changes, tire mounting, balancing and repair, etc.

Civil Engineering and Architecture/Advanced CAD

- * Four students earned three hours of dual credit with Heartland Community College.
- * One student earned a Autodesk certification.

Computer Maintenance and Technology

- * All 33 first year students received 10 hours of dual credit with Heartland Community College (HCC).
- * All 3 second year students received nine hours of dual credit with HCC.
- * Students assisted their own home school technology departments in troubleshooting and repair of computers.

Construction Trades

- * Worked with Habitat for Humanity of McLean County on building a home in the community.
- * 12 students became OSHA 10 certified.

Cosmetology

- * 68 students earned hours toward the Illinois state mandated hours during the year: Range 100-756 hours, with an average of 271 hours per student.
- * 20 second year students earned 12,822 hours between 2017-18 and 2018-19 school year: Range 130-1,368 hours.
- * Three students took Cosmetology I, II, and III, offered at BACC and earned 387-537 hours in 2018-19 and totaling of 4,049 hours in those three years.

Criminal Justice and Law Enforcement

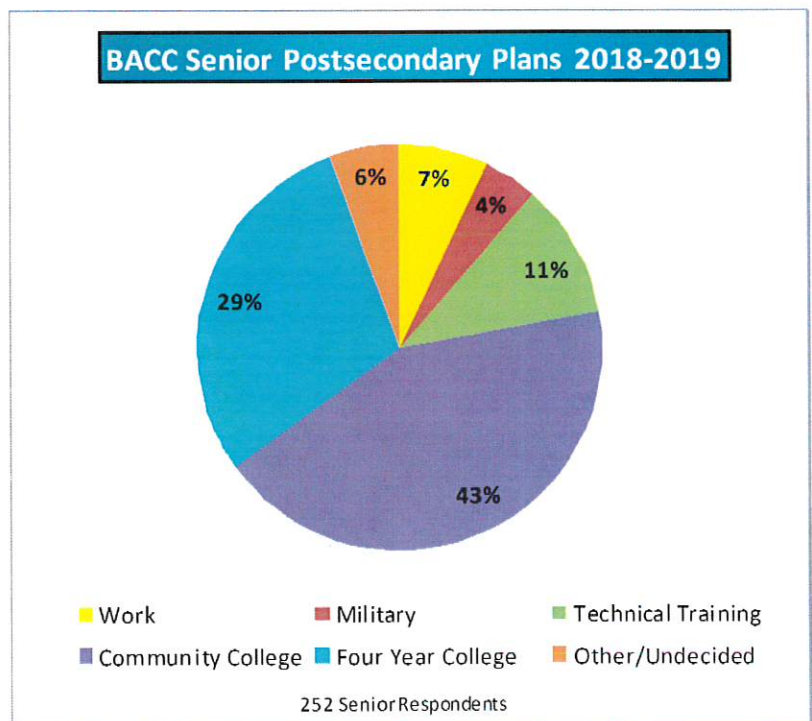
- * 54 students processed a staged crime scene house at Eureka College.

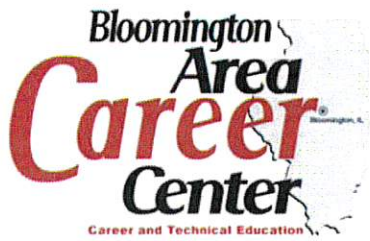
Culinary Arts

- * 19 students earned two dual credit hours in CA 106 at Joliet Junior College.
- * 20 students passed the Illinois Department of Public Health Sanitation Manager Certification Exam.
- * 27 students received ServSafe Food Handler Certification.

Digital Media

- * 19 first year students earned three hours of dual credit with HCC in DMED 101.
- * Seven second year students earned three hours of dual credit with HCC in DMED 120.
- * 20 students earned Adobe Illustrator certification, 18 students earned Adobe Photoshop certification.





End of Year Report 2018-2019

BACC Program Facts (continued)

EMT Basic

- * 13 students are eligible to test for EMT-Basic exam.
- * 27 students were AED and CPR certified.

Fire Science

- * 18 students earned Illinois Central College dual credit in Fire Science 110 for three credit hours.
- * All 20 students were AED and CPR certified.
- * All 20 students are eligible to take the Illinois Department of Public Health EMR First Responder certification exam.

Geometry in Construction

- * Worked with Habitat for Humanity of McLean County and McLean County Community Action on homes in the community.

Health Careers and Medical Terminology

- * 52 students earned three hours of dual credit with HCC in Health 110.

Nurse Assisting

- * 113 first year students passed the Illinois Department of Public Health Certified Nursing Assistant (CNA) exam on their first attempt (94% pass rate).
- * 120 students are AED, CPR certified. 121 students were HIPPA certified.
- * Advanced CNA students were at clinical sites four days per week, with sites including in the Emergency Department, Pediatrics, and Surgicenter at OSF St. Joseph's and Advocate BroMenn Hospitals, and several different private practices.

Metals (HCC and Tri-Valley)

- * 26 students earned six hours of dual credit at HCC in TECH 114, MFTG 115, WELD 110 and WELD 116.



SkillsUSA Technical Skill Competitions

2018-19 Facts:

- * 80 Participants at the State Competition in Springfield, April 11-13.
- * BACC was awarded 52 top ten placements.
- * 12 students participated at the National Competition in Louisville, Kentucky, June 24-28.
- * BACC Computer Technology and Networking student, Ethan Ficek, earned 2nd place in the National Technical Computer Application competition.
- * BACC Cosmetology student, Rebekah Hagberg, will compete at the SkillsUSA World Competition in Kazan, Russia, in August, 2019.

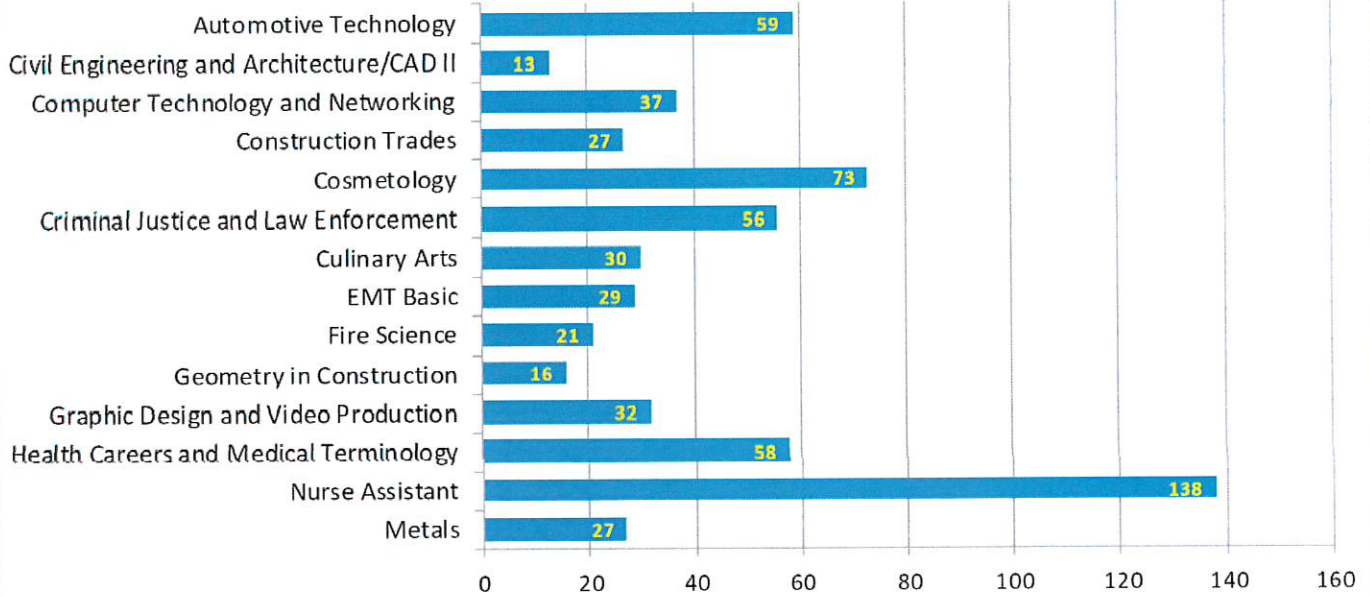
SkillsUSA Competition	State Rankings
Advertisement Design	9 th
Commercial Baking	4 th , 5 th and 9 th
Cosmetology	2 nd and 4 th
Creative Photography Display:	4 th , 9 th and 10 th
Digital Color	
Crime Scene Investigation Team	2 nd and 3 rd
Health Knowledge Bowl	1 st and 3 rd
Job Interview	6 th
Job Skills Demonstration	5 th , 6 th , 7 th , 9 th and 10 th
Medical Terminology	1 st , 2 nd , 4 th , 5 th , 6 th , 7 th , 8 th and 10 th
Nurse Assisting	4 th , 5 th and 6 th
Pin Design	4 th , 6 th , 7 th , 8 th and 10 th
Promotional Bulletin Board	1 st and 2 nd
Team Works	2 nd , 5 th and 7 th
Technical Computer Applications	1 st , 3 rd , 5 th , 6 th , 8 th and 10 th
T-Shirt Design	1 st , 3 rd , 5 th , 6 th , 7 th and 10 th

BACC Senior Postsecondary Plans

Program	Year	Number Enrolled (EOY)	Number Pursuing Postsecondary in Area of Study	% Pursuing Postsecondary in Area of Study	Popular Postsecondary Institutions of Study
Automotive Technology	First	13	3	23%	Heartland (HCC), Parkland College (PC), Illinois Central College (ICC)
	Second	10	4	40%	
	Total	23	7	30%	
Civil Engineering/ CAD II	First	1	1	100%	HCC, Iowa State University, Indiana State University
	Second	6	4	67%	
	Total	7	5	71%	
Construction Trades	First	10	3	30%	HCC, ISU
	Second	3	0	0%	
	Total	13	3	23%	
Computer Technology & Networking	First	13	10	77%	HCC, PC
	Second	2	2	100%	
	Total	15	12	80%	
Cosmetology	First	11	6	55%	HairMasters Institute of Cosmetology, Paul Mitchell the School
	Second	17	12	71%	
	Third	3	3	100%	
	Total	31	21	68%	
Criminal Justice & Law Enforcement	First	16	10	63%	HCC, Eureka College, Western Illinois University
	Second	10	6	60%	
	Total	26	16	62%	
Culinary Arts	First	6	4	67%	HCC, PC, Joliet Junior College, Johnson & Whales, Sullivan University
	Second	9	7	78%	
	Total	15	11	73%	
Graphic Design & Video Production	First	10	5	50%	HCC, PC
	Second	7	3	43%	
	Total	17	8	47%	
EMT-Basic	First	27	6	22%	HCC, Military
	Total	27	6	22%	
Fire Science	First	5	2	40%	HCC, ICC
	Total	5	2	40%	
Health Careers & Medical Terminology	First	25	21	84%	HCC, ISU, PC
	Total	25	21	84%	
Nurse Assisting	First	36	30	83%	HCC, PC, ISU, Sothern Illinois University Edwardsville
	Second	13	13	100%	
	Total	49	43	88%	
Total Seniors		253	155	61%	

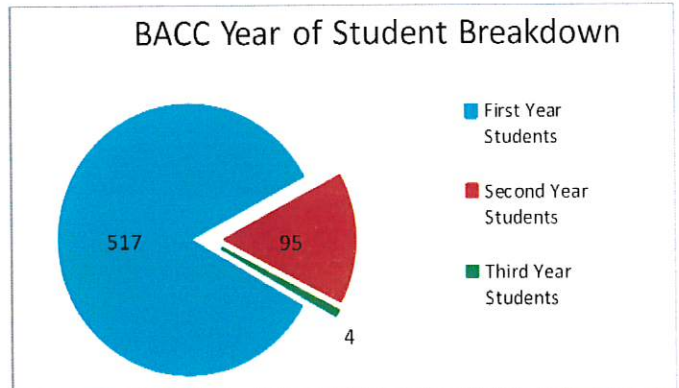
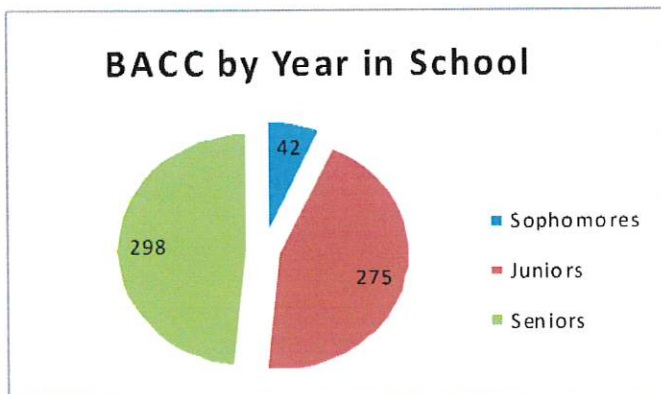
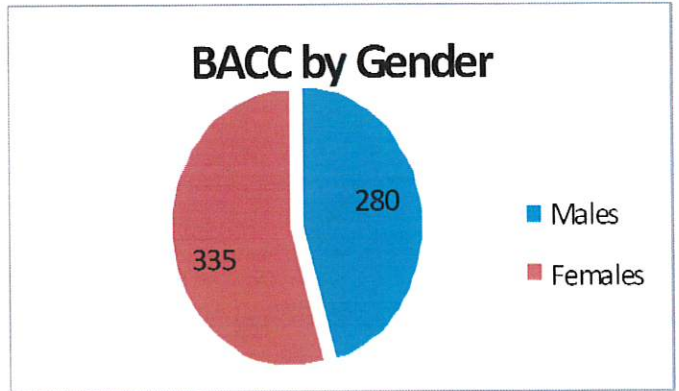
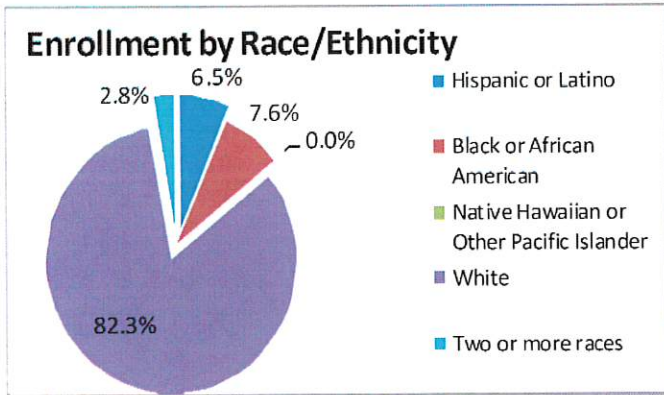
End of Year Report

2018-19 Enrollment



*September 15 enrollment used

Demographic Information



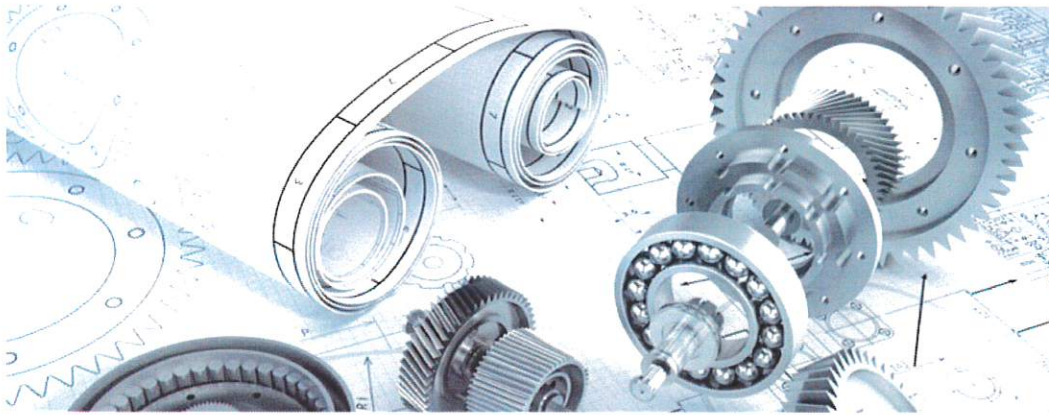
Heartland Community College		
BACC Class	HCC Class	Credit Hours
EMT-Basic	EMT 101	8
Health Careers and Medical Terminology	Health 110	3
Nurse Assisting	Nursing 110	8
Civil Engineering and Architecture	Technology 124	3
Construction Trades	Construction 101	3
Metals I	Welding 110	3
Metals II	Welding 116	3
	Manufacturing 115	3
Computer Technology and Networking I	Computer Science 101	4
	Networking 151	3
	Networking 160	3
	Career Success(SCED 101)	1
Computer Technology and Networking II	Networking 150	3
	Networking 166	3
	Networking 167	3
	Career Success(SCED 101)	1
Graphic Design and Video Production I	Digital Media 101	3
	Career Success(SCED 101)	1
Graphic Design and Video Production II	Digital Media 120	3
	Career Success(SCED 101)	1

Illinois Central College		
BACC Class	ICC Class	Credit Hours
Automotive Technology II	Auto 110	3
Fire Science	Fire Science 110	3
	Fire Science 201	3

Joliet Junior College		
BACC Class	JJC Class	Credit Hours
Culinary Arts	Culinary 106	2



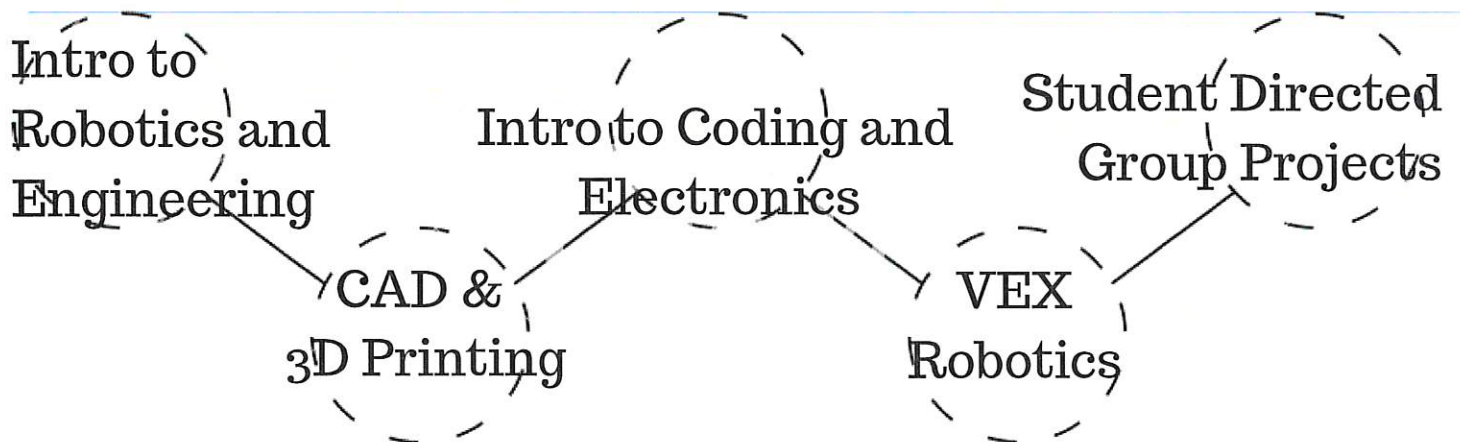
Robotics and Engineering



Course Description:

Students enrolled in this course will demonstrate knowledge and skills necessary for robotic and engineering industries. Through implementation of the design process, students will apply concepts learned in physical science and physics classes to mechanical devices. Students will develop skills in mechanical design (CAD), and construction as they work in teams to build simple and complex robotic devices. They will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the engineering fields.

Sample Course Topics:



Unit/ Topic	Subtopics	Assessments/Assignments	Timeframe
Introduction to Robotics and Engineering	<ul style="list-style-type: none"> -History of robotics and manufacturing - Careers in robotics and Engineering -Engineering design process 	<ul style="list-style-type: none"> -WebQuest on History -Guest Speakers/Community Visit -Engineering Design Process—Learn the process through a small in-class project. 	3 Weeks
CAD and 3D Printing	<ul style="list-style-type: none"> -Basics of Inventor -Assembly Modeling/ Creating Drawings -Reverse Engineering w/ 3d Printing 	<ul style="list-style-type: none"> -Tutorials: Fundamentals of Inventor - Multi-View Drawings in Inventor -Create mechanical parts and assembling -Project: Reverse engineer something mechanical around the house --3d print parts to modify the object -End of Unit Project: Reverse Engineer w/ 3D printed parts (R/C car, Drone or Electronic Toy) 	6 Weeks
Introduction to Coding and Electronics	<ul style="list-style-type: none"> -Arduino Coding and Basic Functions -Basics of Electricity (Amps, Watts, and Volts) -Vex Coding with RobotC 	<ul style="list-style-type: none"> - Assemble Arduino boards and code to understand simple code and explain what it does -Learn about electricity and how it works and learn how to calculate electricity - Assemble a board with multiple VEX electronics and write code to make each of them work 	4 Weeks
Vex Robotics	<ul style="list-style-type: none"> -Designing with Vex -Mechanical advantage and Gear Ratio -Hydraulic and Solar Power -Vex Bot Design Challenge 	<ul style="list-style-type: none"> -Use VEX parts to learn about Mechanical advantage and gear ratio -Design a Bot: It must Roll, and have Buttons with a lift system—students must code them so that these things work. 	5 Weeks
Excel Basics	<ul style="list-style-type: none"> -Basic format of Excel document -Using formulas in Excel 	<ul style="list-style-type: none"> -Lecture/PowerPoint/and Walkthrough 	1 Week
Motorized Bike Kit	<ul style="list-style-type: none"> -Modifying bikes to be motorized -Creating and managing in Excel 	<ul style="list-style-type: none"> -Team Project: Motorized Bikes (includes modifying bikes to be motorized and managing projects in Excel (cost of parts, work hours, total manufacturing cost) 	8 Weeks
Student Directed Group Project	<ul style="list-style-type: none"> -This will allow students to review all of the topics in the course up to this point. 	<ul style="list-style-type: none"> -In groups students will create a project what will go to market. -Idea Pitch: Students will come up with ideas using the engineering design process. They will pitch these to the instructor and peers. -CAD: Students will create all parts of proposed project in CAD with drawing sheets. -3d Printing: Incorporate 3d printed parts with electrical components -Excel: Maintain Excel document with cost of parts and time sheet. -Presentation: Students will present product to instructor, peer, and school and community partners. 	7 Weeks