

Service High School Biomedical Career Academy

Program Course Sequence

The Biomedical Career Academy offers four years of relevant and rigorous Project Lead The Way- Biomedical Sciences classes for all BCA students during the school day. All BCA students are enrolled in PLTW classes along with an extracurricular advisory credit with their BCA advisor. Movement through the curriculum requires successful completion of prerequisites in PLTW courses and passing BCA Advisory. BCA Advisory classes are participation credits with passing set at 80% (students must complete 36 hours to earn .25 elective credit). All BCA students are active members of HOSA, a national future health careers Career Technical Student Organization.

Students taking either AP Biology or AP Chemistry in conjunction with PLTW classes can earn AP+PLTW recognition. See CollegeBoard for more information:

<https://apstudent.collegeboard.org/exploreap/the-ap-experience/ap-project-lead-the-way>

Program Course Sequence

9 th Grade		10 th Grade		11 th Grade		12 th Grade	
Courses		Courses		Courses		Courses	
Course	Pre-Req	Course	Pre-Req	Course	Pre-Req	Course	Pre-Req
English I		English II		English III or AP Language		English IV or AP Literature	
AK Studies Ancient Civilizations		World History		US History		US Government Economics	
Math		Math		Math		Math	
PLTW- Principles of the Biomedical Sciences (PBS)	None	PLTW- Human Body Systems (HBS)	PBS AND BCA Advisory	PLTW- Medical Interventions (MI)	HBS AND Biology AND BCA Advisory	PLTW- Biomedical Innovations* (BI)	MI AND BCA Advisory
Biology (with concurrent geometry) or Elective		Biology or Chemistry		Chemistry or Elective		Elective	
Elective		Elective		Elective		Elective	
Extracurricular: <ul style="list-style-type: none"> • BCA Advisory- Exploratory activities • HOSA .25 Elective Credit (45 hours)		Extracurricular: <ul style="list-style-type: none"> • BCA Advisory- Exploratory activities • HOSA .25 Elective Credit (45 hours)		Extracurricular: <ul style="list-style-type: none"> • BCA Advisory- Community Service Project • HOSA .25 Elective Credit (45 hours)		Extracurricular: <ul style="list-style-type: none"> • BCA Advisory- Job Shadow Project • HOSA .25 Elective Credit (45 hours)	

*Students may replace BI with AP Chemistry

BCA Graduation Cords

Students who satisfy the requirements below earn a BCA cord to be worn at SHS graduation. Seniors are awarded cords at a BCA graduation ceremony where they are recognized for their accomplishments with both peers and parents of the BCA community. Cords are maroon and navy, HOSA colors.

1. Must have taken at least four BCA Science classes (PBS, HBS, MI, and BI or AP Chemistry)
2. Students must pass 3 years of advisory
3. Students must have attended 3 HOSA conferences
4. Students must have a cumulative GPA of 3.0 or higher
5. Students must pass Capstone Project (12th grade)
6. Students must complete Community Service Project (11th grade)
7. Good academic standing (no suspensions or disciplinary actions taken by BCA staff) and satisfy all ASD graduation requirements