

Bachelor of Applied Science in Applied Health Sciences Biomedical Specialization

Associate Degree Awarded 60 Credit hours

An AS or AA degree from a Regionally Accredited Institution is required for admission into EFSC BAS programs

General Education Credit Requirement

Students entering the program with an Associate in Arts degree from a Florida state institution will receive credit for all 36 general education credits. Students entering the program with an AS degree, or an AA degree from an institution other than a Florida state institution may need to complete additional general education credits.

	Cumpart Courses Options	Cuaditar un ta de
	Support Courses Options	Credits: up to 16
General Biology 2	BSCC 1011 Required	4
Intro to BiotechMethods 1 & 2	BSCC 1426 & BSCC 1427	4 each
General Chemistry	CHM(L) 1045 & CHM(L) 1046 Required	4 Each
Organic Chemistry	CHM(L) 2210 & CHM(L) 2211 Required	4 Each
Calculus 1&2	MAC 1311 & MAC 2312	5 Each
General Physics 1&2	PHY(L) 2048 & PHY(L) 2049	5 Each
Common Required Core (complete both courses)		Credits: 6
HSC 3741	Writing for Healthcare Professionals	3
1130 3/41	(Appropriate test scores in reading and writing)	3
ISC 3523	Applied Scientific Thinking	3
	Biomedical Major Courses	Credits: 27
BCH 4024	Introduction to Biochemistry & Molecular Biology	
	Prerequisite:	4
	CHM 2211 -Organic Chemistry II and Lab	
HSC 4500	Epidemiology	3
	Prerequisite:	
	STA 2023 - Statistics OR PHC 4094 Intro to Biostatistics for HS and PH	
MCBC 3020	Biology of Microorganisms	
	Prerequisites:	
	BSCC 1010 - General Biology I	
	CHM 2210 -Organic Chemistry I and Lab	5
	-OR-	
	Completion of an AS degree in - Veterinary Technology, Dental Hygiene, Medical	
	Laboratory Technology, Respriratiory Technology, or Nursing.	
PCB 3063	Genetics	
	Prerequisites:	
	BSCC 1011 - General Biology II -OR-	
	BSCC 1426- Intro to Biotech Methods	
	AND	3
	CHM 1046-Chemistry II and lab	
	-OR- Completion of an AS degree in - Veterinary Technology, Dental Hygiene, Medical	
	Laboratory Technology, Respriratiory Technology, or Nursing.	
PCB 4233	Immunology	
	Prerequisites:	3
	BSCC 1010 -General Biology I	3
	CHM 1046 - General Chemistry II and Lab	

PHC 4031	Emerging & Infectious Diseases	3
PHC 4094	Biostatistics for Public Health	
FIIC 4034	Prerequisite:	3
	STA 2023 - Statistics	
HSC 4851	Health Sciences Internship	
	(Must be taken in last semester)	3
	(Registration will require Advisor permission)	
	(Background check may be required)	
1164 4040	-OR-	
HSA 4910	Capstone: Case Studies in Biomedial Science	2
	(Must be taken in last semester)	2
1150 2004	(Registration will require Advisor permission)	1
HSC 3801	Clinical Observation/Volunteer Work (Must be completed prior to HSA 4910)	1
	Biomedical Sciences Electives	Credits: 11 - 27
ANS 3440	Principles of Animal Nutrition	4
	Prerequisite: CHM 1045 -General Chemistry I & lab	
ANS 4911	Individual Mentored Research Animal Science	
	Prerequisites:	
	Bachelor level biology/biotech course with 'C' or higher	
	Recommended prior:	1
	BSCC 2910 -Biological Research (prereq BSCC 1010 -Gen Bio I	
	CHMC 2910 -Chem Rsrch (prereq CHM 1045 -Gen Chm w/ lab)	
	IDH 2009 -Liberal Arts Research Methods	
	IDS 2911 -Undergrad Research(previous 3 classes recommended prior)	
ANSC 3006	Introduction to Animal Science	4
ATEC 4640	Laboratory Animals and the IACUC	4
	Prerequisite: HSC 3741 - Writing for Healthcare Professionals	
BCHC 4103	Biochemical Methods	
	Prerequisites:	2
	HSCC 3543 - Qualitative Biomedical Laboratory Methods	
	BCH 4024 - Methods & Applications in Biotechnology 3	
BSC 3424	Nanotechnology	3
	Prerequiste: CHM(L) 2211 - Organic Chemistry II & Lab	
BSC 4434	Bioinformatics	3
	Prerequisite: PCB 3063 - Genetics	
BSC 4870	Principles of Pharmacology	
	Prerequisites:	
	BSCC 1010 -General Biology I	
	BSCC 2094 -Human Anat & Physiology II	
	CHM 2210 -Organic Chemistry I	3
	-OR-	
	Completion of an AS degree in - Veterinary Technology, Dental Hygiene, Medical	
	Laboratory Technology, Respriratiory Technology, or Nursing.	
BSC 4911	Individual Mentored Research in Biology/Biotechnology	1
	Prerequisites: See prerequisites for ANS 4911	
BSCC 4422	Methods & Applications in Biotechnology 3	
	Prerequisite:	4
	BSCC 1427 - Intro to Biotechnology Methods II	
	Prerequisite - BSCC 1426 Intro to Biotechnology Methods	
HSA 3502	Healthcare Risk Management	3
HSA 3702	Healthcare Research	3
HSC 3201	Community Health	3
HSC 3537	Health & Medical Terminology	3
HSC 3740	Quality Assurance for the Biomedical Sciences Laboratory	
	Prerequisite:	3
	STA 2023 - Statistics OR PHC 4094 Intro to Biostatistics for HS and PH	

HSCC 3543	Quantitative Biomedical Laboratory Methods	
	Prerequisites:	
	BSCC 1011 - General Biology 2	4
	CHM(L) 1046 - General Chemistry 2 with lab	
HSCC 4544	Quantitative Biomedical Laboratory Instrumentation	
	Prerequisite: HSCC 3243 - Quantitative Biom Lab Methods	4
HSC 3820	Transcultural Biomedical Science Study Abroad	4
HSC 4184	Healthcare Leadership	3
HSC 4404	Medical Disaster Management	3
MCB 4203	Bacterial and Viral Pathogenisis	•
	Prerequisite: MCBC 3020 - Biology of Microorganisms	3
PCB 3134	Cell Biology	
	Prerequisites:	2
	BSCC 1010 -General Biology I	3
	CHM 1046 -Chemistry II and Lab	
PCB 4234	Biology of Cancer	
	Prerequisites:	
	BSCC 2094 -Human Anat & Physiology II	
	PCB 3063 -Genetics	3
	-OR-	J
	Completion of an AS degree in - Veterinary Technology, Dental Hygiene, Medical	
	Laboratory Technology, Respriratiory Technology, or Nursing.	
ZOO 4911	Individual Mentored Research in Zoology	1
	Prerequisites: See prerequisites for ANS 4911	1
ZOOC 4232	Comparative Parasitology	
	Prerequisite: BSCC 1010 -General Biology I	
	-OR-	4
	Completion of an AS degree in - Veterinary Technology or Medical Laboratory Technology	
ZOOC 4603	Developmental Biology	
	Prerequisites:	
	BSCC 1010 -General Biology I	
	CHM 1046 -Chemistry II and Lab	5
	-OR-	
	Completion of an AS degree in - Veterinary Technology, Dental Hygiene, Medical	
	Laboratory Technology, Respriratiory Technology, or Nursing.	
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Notes:

-Successfully complete the Florida foreign language requirement: two high school credits or at least eight college credits or demonstration of proficiency in a single foreign language. American Sign Language is acceptable. Foreign language taken at the college level does not satisfy the General Education or Technical Concentration credits.

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- All prerequisites must be completed with a grade of "C" or higher

- Students may earn the BAS/HSBS degree once, choosing one specialization from available tracks. If BAS graduates wish to take courses from another specialization within this degree, they may do so as a non-degree student The official curriculum in the current online EFSC catalog supersedes this document. EFSC reserves the right to make changes in the online and printed versions of the curriculum as circumstances require. It is expected that the only changes will be the correction of errors and the inclusion of new courses and programs approved during the academic year.

- This planning guide is valid only if initial courses are taken during the term noted at the top of the guide.

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Total Credits