B.S. in Natural Science

Coordinator: Dr. Larry Kupchella, 230 Weyandt Hall, 724-357-2363 (lkup@iup.edu)

The program leading to the B.S. degree with a major in Natural Science is designed primarily to prepare students for admission to professional schools – chiropractic, dentistry, optometry, physical therapy, pharmacy, and podiatry. A separate track prepares students for further study in engineering. Most students in this B.S. program will complete the baccalaureate degree before entering professional school. These students typically apply to professional school during the fall of their junior year at IUP. Students that have exceptional academic records can apply to one of our affiliated professional schools early, and, if accepted, they can enter that professional school after completing their junior year at IUP. The B. S. degree with a major in Natural Science will be earned by such students after satisfactorily completing their first year of studies at the professional school.[1]

In some cases, students interested in obtaining a four-year baccalaureate degree before entering a medical or professional school should enroll in a program leading to a B.A. or B.S. degree in the departments of Biology or Chemistry. Students considering a professional career in a high-technology business or health-oriented businesses or industries may wish to obtain a foundation in the Natural Sciences while using their free electives to pursue additional work in areas such as Molecular Biology, Biochemistry, Psychology, Economics, Pre-Law, or Athletic Training. The B.S degree in Natural Science may not be used for a second major or a second degree by majors in the College of Natural Sciences and Mathematics. For further information, contact the Natural Sciences Program coordinator.

[1] After completion of their first year of studies at professional school, the student must send their transcripts to the Dean of the College of Natural Sciences and Mathematics with a note requesting graduation materials.

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(revised summer, 2012)

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	1st Semester			**2nd Semester**	
BIOL 111	Principles of Biology I	4sh	BIOL 112	Principles of Biology II	4sh
CHEM 111	General Chemistry I	4sh	CHEM 112	General Chemistry II	4sh
ENGL 101	Composition I	3sh	ARHI 101	Introduction to Art or	
MATH 121	Calculus I for Natural Science	4sh	MUHI 101	Introduction to Music or	
		15sh	THTR 101	Introduction to Theater or	
			DANC 102	Introduction to Dance	3sh
			HIST 19_	Am., Euro., Global History	3sh
					14sh

	3rd Semester			**4th Semester**	
BIOL 150	Human Anatomy	3sh	BIOL 263	Genetics (W-Major)	3sh
CHEM 231	Organic Chemistry I	4sh	CHEM 232	Organic Chemistry II, or	
ENGL 121	Humanities Literature	3sh	CHEM 351	Biochemistry	4sh
____ ___	Social Science Elective	3sh	MATH 216	Probability & Statistics	3sh
____ 143	"dimensions of wellness"[1]	3sh	PSYC 101	General Psychology	3sh
		16sh	ENGL 202	English Composition II	3sh
					16sh

	5th Semester			**6th Semester**	
PHIL/RLST	Philosophy or Religion	3sh	BIOL 241	General Microbiology	3sh
BIOL 151	Human Physiology	4sh	____ ___	Int. Level Foreign Lang.[2]	3-4sh
____ ___	Int. Level Foreign Lang.[2]	3-4sh	PHYS 112	Physics II	3sh
PHYS 111	Physics I	3sh	PHYS 122	Physics II Lab	1sh
PHYS 121	Physics I Lab	1sh	____ ___	Social Science Elective[3]	3sh
		14-15sh	COSC 101	Micro. Computer Lit.	3sh
					16-17sh

	7th Semester			**8th Semester**	
____ ___	Writing Intensv(Non-Maj)[4]	3sh	____ ___	Free Elective	3sh
____ ___	Free Elective	3sh	____ ___	Free Elective	3sh
____ ___	Free Elective	3sh	____ ___	Free Elective	3sh
____ ___	Free Elective	3sh	____ ___	Free Elective	3sh
		12sh	____ ___	Free Elective	3sh
					15sh

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[1] Take either HPED 143, FDNT 143, NURS 143, or MLSC 101 (Intro to Military Science) and MLSC 102 (Fundamentals of Military Science) to fulfill this requirement.

[2] Foreign Language must be passed through the intermediate level. If elementary foreign language is taken prior to the intermediate level, those credits will count as free electives. The courses, either College French I & II, German III & IV, or Elementary Spanish II and Intermediate Spanish, count as Liberal Studies electives.

[3] Select a course that will satisfy Liberal Studies "global and multicultural awareness" requirement. .

[4] Not required for three-year students who transfer to a professional school with an articulation agreement.