

**IUPUI Degree Map**  
**Five Year Plan: 4+1 BS in Biology + MS in Bioinformatics**  
**Catalog Year: 2014---2016**

Biology Courses – Gen Ed Courses – Elective/Computer Science – Informatics

First Year							
Fall Semester – Semester 1				Spring Semester – Semester 2			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
Major	BIOL---K101	5	C-	Major	BIOL---K103	5	C-
SoS Phys/Biol Sci GE Life/Phys Sci	CHEM---C105 CHEM---C125	3+2	C-	SoS Phys/Biol Sci GE Life/Phys Sci	CHEM---C106 CHEM---C126	3+2	C-
SoS Math GE Analytical/Math	MATH 23100	3	C-	SoS Math	MATH 23200	3	C-
SoS First Yr Seminar	SCI---I120	1	D-	SoS Comm GE Core Comm	ENG---W131	3	C
Total Credits	14			Total Credits	16		
Cumulative Total	14			Cumulative Total	30		
Second Year							
Fall Semester – Semester 3				Spring Semester – Semester 4			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
Major Biology Genetics Lecture/Lab*	BIOL K322 BIOL-K323	3+2	C-	Major Biology Cellular lecture/Lab*	BIOL-K324 BIOL-K325	3+2	C-
GE Arts/Hum/SS	Choose from list	3	C	SoS Comm: 2 <sup>nd</sup> Written Comp	Recommend TCM 320	3	C
SoS Phys/Biol Sci	CHEM-C341	3	C-	SoS Phys/Biol Sci	CHEM---C342	3	C-
SoS Phys/Biol Sci	CHEM-C343	2	C-	SoS Phys/Biol Sci	CHEM---C344	2	C-
GE Cultural Understanding	Choose from List	3		SoS Computer Prog GE Analytical/Math	CSCI 23000	3	C-
Total Credits	16			Total Credits	16		
Cumulative Total	46			Cumulative Total	62		
Third Year							
Fall Semester – Semester 5				Spring Semester – Semester 6			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
Major Biology Molecular Lecture/Lab*	BIOL---KXXX BIOL---KXXX	3+2	C-	Major Biology Organismal Lecture/Lab*	BIOL---KXXX BIOL---KXXX	3+2	C-
SoS Comm GE Core Comm	COMM---R110	3	C	GE Arts/Hum/SS	Choose from list	3	C
SoS Phys/Biol Sci	PHYS---P201	5	C-	SoS Phys/Biol Sci	PHYS---P202	5	C-
Elective/Minor Course	INFO I201 or CSCI 340	3	C-	Elective/Minor Course	CSCI N317	3	C-
					<b>Apply to Graduate Program</b>		
Total Credits	16			Total Credits	16		
Cumulative Total	78			Cumulative Total	94		

Fourth Year							
Fall Semester – Semester 7				Spring Semester – Semester 8			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
Major Biology Lecture/Lab*	BIOL---K341 BIOL---K342	3	C-	Major Biology Research / Thesis	BIOL---K493 BIOL---K494	1+1	C-
Major Biology Research	BIOL---K493	2	C-	Major Biology to reach 40 total	BIOL---K384 (Rec: Biochem.)	3	C-
GE Arts & Hum/SS	Choose from List	3	C	Elective/Minor Course	CSCI 362	3	C-
Master's Degree Elective/Minor	B519 Intro Bioinform.	3	B-	Master's Degree Elective/Minor	B556 Biol Database	3	B-
Master's Degree Elective/Minor	B573 Prog. for Life Sci	3	B-	Master's Degree Elective/Minor	BI Core B Elective	3	B-
				Candidate for Graduation	CAND 99100	0	
Total Credits	14			Total Credits	14		
Cumulative Total	108			Cumulative Total	122		
SUMMER							
Summer				Summer			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
				Master's Degree	INFO B692 Thesis Project	3	B-
Total Credits				Total Credits	3		
Cumulative Total				Cumulative Total	125		
Fifth Year							
Fall Semester – Semester 9				Spring Semester – Semester 10			
Description	Course	Credits	Minimum Grade	Description	Course	Credits	Minimum Grade
	CSCI 590	3	B-		INFO B532	3	B-
	INFO B616	3	B-		INFO Core B Elective	3	B-
	INFO Core B Elective	3	B-		INFO Core B Elective	3	B-
					INFO BI Elect/B692 Project/Thesis	3	B-
Total Credits	9			Total Credits	12		
Cumulative Total	134			Cumulative Total	146		