



# Master of Science in Integrative Biology

## LIST OF APPROVED COURSES FOR MS IN IB PROGRAM 2021/2022

(updated June 2021)

MS in IB course selection must include at least **32 total hours** comprised from:

- **Core Curriculum:** 12-14 credit hours from two of the following three disciplinary areas of Integrative Biology:
  - Area 1: Organismal and Evolutionary Biology
  - Area 2: Behavior, Ecology and the Environment
  - Area 3: Integrative Anatomy, Physiology and Molecular Biology
- **Additional Advanced Course Elective Hours (ADV):** 6-8 credit hours may be filled from these advanced courses, or from additional courses in any of the three disciplinary areas above
- **500-level Courses:** 12 credit hours

Also be sure to see more information including syllabi and future semester course offerings by visiting SIB's Graduate Course Schedule at <https://sib.illinois.edu/courses/graduate>

### FALL 2021 COURSES

Course Number	Course Name	Hours	Lab	Disciplinary Area
IB 401	Introduction to Entomology	3-4	LAB	Area 1
IB 411 ONL	Bioinspiration	3		ADV
IB 421	Photosynthesis	3		Area 3
IB 436	Evolutionary Neuroscience	3-4		ADV
IB 462	Mammalogy	4	LAB	Area 1
IB 468	Insect Classification and Evolution	4	LAB	ADV
IB 479	Plant Growth and Development	3		ADV
IB 480	Bioinspired Design	3-4		ADV
IB 482	Insect Pest Management	3	LAB	Area 2
IB 496	Analysis of Data in R	4		ADV
IB 513	Discussions in Plant Physiology	1		
IB 526	Seminar in Entomology	1		
IB 546	Topics in Ecology & Evolution	1		
IB 590	Individual Topics	6 max		

### SPRING 2022 COURSES (expected)

Course Number	Course Name	Hours	Lab	Disciplinary Area
IB 416	Population Genetics	3-4		ADV
IB 420	Plant Physiology	3		Area 3
IB 427	Insect Physiology	4	LAB	Area 3
IB 432	Genes and Behavior	3		Area 2
IB 439	Biogeography	3		Area 2

IB 440	Plants and Global Change	3		Area 2
IB 442	Evolution of Infectious Disease	3		ADV
IB 451	Conservation Biology	4	LAB	Area 2
IB 461	Ornithology	4	LAB	Area 1
IB 476	Applied GIS to Environmental Studies	3		ADV
IB 481	Vector-borne Diseases	4	LAB	Area 2
IB 484	Paleoclimatology	4		ADV
IB 487	Math Modeling in Life Sciences	3-4		ADV
*IB 492	Career and Skill Development in IB ( <i>*required for MS in IB students</i> )	2		ADV
IB 494	Theoretical Biology and Models	4	LAB	Area 2
IB 496	Science Communication	3		ADV
IB 502	Biological Networks	2		
IB 512	Plant Metabolomics	2		
IB 513	Discussions in Plant Physiology	1		
IB 526	Seminar in Entomology	1		
IB 531	Emerging Infectious Disease	4		
IB 546	Topics in Ecology & Evolution	1		
IB 590	Individual Topics	6 max		

### SUMMER 2022 COURSES (*expected*)

Course Number	Course Name	Hours	Lab	Disciplinary Area
IB 506	Applied Bioinformatics	4		
IB 535	Biology and Tech Innovation	4		
IB 590	Individual Topics	6 max		