



TYPICAL FOUR YEAR PLAN IB

Genetic Counseling

SEMESTER 1

IB 150 (4hrs) OR MCB 150 (4hrs)
CHEM 101 (3hrs) or CHEM 102 & 103 (4hrs)
MATH 112 (3hrs), MATH 115 (3hrs), MATH 220/1 (5hrs), or RHET 105 (4hrs)
PSYC 100, or LOTE (4hrs)
Total Hours: 13-16hrs

SEMESTER 3

IB 203 Ecology (4hrs) ADV. COMP
IB 204 Genetics (4hrs)
CHEM 104 & 105 (4hrs) or CHEM 232 (4hrs)
CHEM 233, Gen Ed, or Elective (2-4hrs)
Total Hours: 14-16hrs

SEMESTER 5

Advanced IB Course: IB 303 (4hrs) (A3, ADV LAB)
PHYS 101 (5hrs)
Gen Ed (3hrs)
Gen Ed, LOTE, or Elective (3-4hrs)
Total Hours: 13-16hrs

SEMESTER 7

Advanced IB Course (3-5hrs): IB 411 (3hrs)
ADV MCB Genetics Course: MCB 316 (4hrs)
Gen Ed or Elective (3hrs)
Gen Ed or Elective (3hrs)
Total Hours: 13-16hrs

SEMESTER 2

IB 150 (4hrs) OR MCB 150 (4hrs)
CHEM 102 & 103 (4hrs) or CHEM 104 & 105 (4hrs)
MATH 115 (3hrs), or MATH 220 (5hrs), STATS 212 (3hrs), or RHET 105 (4hrs)
PSYC 100, or LOTE (4hrs)
Total Hours: 13-16hrs

SEMESTER 4

IB 202 Physiology (4hrs)
IB 302 Evolution (4hrs)
CHEM 232 & CHEM 233 (6hrs)
Gen Ed or Elective (1-3hrs)
Total Hours: 15-17hrs

SEMESTER 6

Advanced IB Course: MCB 450 (3hrs)
PHYS 102 (5hrs)
Gen Ed. or LOTE (3-5hrs)
Gen Ed or Elective (1-3hrs)
Total Hours: 14-16hrs

SEMESTER 8

Advanced IB Course: IB 432 (3hrs) (A2)
ADV IB Course: IB 416 (3hrs)
Elective (3hrs)
Elective (3hrs)
Total Hours: 12-16hrs



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ADDITIONAL GENETICS CONSIDERATIONS

- Bachelor's degree that includes coursework in genetics, biochemistry, psychology and statistics.
- If you need to save time you can always look to take certain courses over the summer such as: MATH 220, PHYS 101, & PHYS 102 *(Confirm with potential med schools if you can take courses outside of undergrad institution)*
- Organic Chemistry II (**CHEM 332**) is not required for all schools but is recommended
- If you choose to take CHEM 332 you are one advanced course away from a **minor in Chemistry** talk to your advisor if this is something you are interested in
- Enhance your application with experiences with patient advocacy, counseling, healthcare volunteer work, **Research Experience**, Leadership, or **Student Organizations**
- Master's degree programs must be accredited by **the Accreditation Council for Genetic Counseling (ACGC)**

GENERAL REQUIRED & ELECTIVE COURSEWORK

- Introductory Biology (IB 150, MCB 150)
- General Chemistry I & II (CHEM 102/103 & CHEM 104/105)
- Organic Chemistry I (CHEM 232 & 233)
- Psychology (PSYC 100)
- Statistics (Stats 100 &/or STATS 212)
- Genetics (IB 204)
- Biochemistry (MCB 450)
- **ADV MCB Genetics Course**

RECOMMENDED, NOT REQUIRED

Research IB 390/490
Anatomy IB 303 (A3, LAB)
Physiology IB 202

GRAD SCHOOL INFO*

- Average GPA: 3.00+
- GRE may be required

MORE ELECTIVES

- CLCV 102 Medical Terminology
- CHLH 330 Disability in Am. Society
- REHB 402 Medical Aspects of Dis.
- PSYC 408 Hum. Behavior Genetics
- MCB 316 Genetics & Disease
- MCB 317 Genetics & Genomics

RELATED ADV. IB OPTIONS

COURSE	HOURS	FA	SP	SU
IB 360 (A1) Evol. & Human Health	3	✓		
IB 361 (A2) Ecology & Human Health	3		✓	
IB 432 (A2) Genes & Behavior	3		✓	
IB 481 (A2) Vector-borne Diseases (LAB)	4		✓ EVEN	
IB 303 (A3) Anatomy (LAB)	4	✓		
IB 364 (A3) Genomics & Human Health	3			✓
IB 411 Bioinspiration (Online)	3	✓		
IB 416 Population Genetics	3		✓	
IB 436 Evolutionary Neuroscience	3 or 4	✓		
IB 442 Evolution of Infectious Disease	3		✓	
MCB 300 Microbiology	3	✓	✓	

**These are generalizations always check with the specific school you plan to apply to for specific requirements as each school will be different, planning ahead is always the best idea*