### Typical Four Year Plan IB: Genetic Counseling

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Total Hours:</th>
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</table>
| **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 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 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 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 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 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 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 8** | Advanced IB Course: IB 432 (3hrs) (A2)  
ADV IB Course: IB 416 (3hrs)  
Elective (3hrs)  
Elective (3hrs)  
**Total Hours: 12-16hrs** | |
TYPICAL FOUR YEAR PLAN IB

Genetic Counseling

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

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<tr>
<th>COURSE</th>
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<tbody>
<tr>
<td>Research IB 390/490</td>
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<tr>
<td>Anatomy IB 303 (A3, LAB)</td>
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<td>Physiology IB 202</td>
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RELATED ADV. IB OPTIONS

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<tr>
<td>IB 360 (A1) Evol. &amp; Human Health</td>
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<tr>
<td>IB 361 (A2) Ecology &amp; Human Health</td>
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<td>IB 432 (A2) Genes &amp; Behavior</td>
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<td>IB 481 (A2) Vector-borne Diseases (LAB)</td>
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<td>EVEN</td>
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<td>IB 303 (A3) Anatomy (LAB)</td>
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<td>IB 364 (A3) Genomics &amp; Human Health</td>
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<td>IB 411 Bioinspiration (Online)</td>
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<td>IB 416 Poplulation Genetics</td>
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<td>IB 436 Evolutionary Neuroscience</td>
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<td>IB 442 Evolution of Infectious Disease</td>
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<td>MCB 300 Microbiology</td>
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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

*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