Genetics is part of our curriculum that includes a module within the Principles of Biomedical Sciences course (Genetics) and integrated content in other courses over the program.

### YEAR ONE TERM ONE

**Principles of Biomedical Sciences:**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction/Family History &amp; Pedigree</td>
<td>Fetal alcohol spectrum disorder</td>
</tr>
<tr>
<td>Traditional patterns of inheritance</td>
<td>Cancer genetics</td>
</tr>
<tr>
<td>Non-traditional patterns of inheritance</td>
<td>Genetics Case Presentations</td>
</tr>
<tr>
<td>Genetics Testing I &amp; II</td>
<td>Patient Interview</td>
</tr>
<tr>
<td>Metabolic diseases</td>
<td>Approach to the dysmorphic patient</td>
</tr>
<tr>
<td>Teratology</td>
<td>Screening and prenatal testing</td>
</tr>
</tbody>
</table>

Shadowing opportunities with a medical geneticist may be available upon request.

### Year One Term Two - Year Two: Foundations of Clinical Medicine I-III

Genetics related content is included in the following locations within the three linked Foundations courses:

**Haematology:** hemoglobinopathies, malignant hematology, hereditary bleeding and thrombotic disorders

**Respiratory:** cystic fibrosis, alpha-1 antitrypsin deficiency (COPD)

**Cardiovascular:** genetics/epigenetics of CV disease

**Gastrointestinal:** hereditary liver disease, congenital GI disorders

**Kidney and Urinary Tract:** pediatric nephrology/urology

**Musculoskeletal:** congenital hip dislocation, autoimmune rheumatic disorders

**Neurosciences:** movement disorders, congenital disorders, neurocutaneous disorders, others

**Endocrine:** hereditary aspects of various endocrinologic disorders

**Reproductive Health:** Genetics, Teratology, prenatal diagnosis, breast/gynecologic malignancies.

**Mental Health:** schizophrenia

**Dermatology:** hereditary aspects of various dermatologic disorders
**Year Three/Four: Clerkship**

**Core Rotations:** Genetic disorders may be encountered on any clinical rotation. This may occur more frequently on the Pediatrics, OB/GYN, or Internal Medicine rotations.

**Selected Topics in Clerkship:** Sessions with genetics related content will be included within this course.

**Clinical Electives Course (Year 4):** An elective in Medical Genetics may be an option for students to pursue.