Course description
Offered jointly by Basic Medical Science Departments, this lecture course will provide students with background knowledge in a variety of techniques and topics in medical research. Major topics include disease, metabolism, proteomics and signaling pathways. Students will also be introduced to scientific writing.

Learning outcomes
Upon successful completion of this course, students will be able to:

- Draw from multiple basic medical science disciplines (e.g., pathology, epidemiology, biochemistry, anatomy, physiology, pharmacology, immunology) to use an interdisciplinary approach to understand and evaluate a chosen disease.
- Describe the basic structure and organization of scientific literature and recognize variations that can exist.
- Critique primary scientific literature by summarizing the main findings and identifying the strengths, weaknesses and limitations within a research study.
- Conduct an effective search inquiry using an appropriate medical literature database and summarize pertinent information.
- Evaluate scientific literature and synthesize concepts to create a literature review in a specific discipline of the chosen disease.
- Develop written and oral skills to communicate information, arguments, and analyses accurately and reliably, to a range of audiences.
- Create a concept map to explain the value of an interdisciplinary approach to medical sciences.

Evaluations

<table>
<thead>
<tr>
<th>Component</th>
<th>Weightage</th>
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</thead>
<tbody>
<tr>
<td>Tutorial participation</td>
<td>10%</td>
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<tr>
<td>Written assignments</td>
<td>40%</td>
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<tr>
<td>Examinations</td>
<td>20% (midterm); 30% (final)</td>
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