The ICRE course schedule provides class listings and associated course information. The course information shared on this schedule is updated regularly to reflect any programmatic changes. Occasionally the University of Pittsburgh’s official Course Catalogue will display different information than what is provided below. Please always rely on this schedule as the most accurate listing of ICRE courses.

**Please familiarize yourself with the terminology used in the course schedule:**

<table>
<thead>
<tr>
<th>Term</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional Course</td>
<td>Students attend in-person lectures, recitations, and labs. Work done online at home is limited to course reading, homework and review.</td>
</tr>
<tr>
<td>Hybrid Course</td>
<td>Students attend in-person small group sessions. Lecture videos, course reading, homework and review are done online. This format reduces the time spent physically in class.</td>
</tr>
<tr>
<td>Flex Choice</td>
<td>Students are able to attend in-person lectures or view prerecorded lectures online.</td>
</tr>
<tr>
<td>Online Course</td>
<td><strong>Synchronous</strong> Synchronous courses are live, online courses that are conducted in real-time on Zoom. The instructor and students are together in the same session, which will begin and end at a fixed time.</td>
</tr>
<tr>
<td></td>
<td><strong>Asynchronous</strong> Asynchronous courses are composed of prebuilt course components, allowing students to complete them at the time and pace of their choosing.</td>
</tr>
<tr>
<td>Group A</td>
<td>Students are split into two groups prior to the start of term. These groups are determined by student preference and seat availability. Due to the elevated enrollment in our summer courses, creating subgroups within our courses allows for a richer student experience.</td>
</tr>
<tr>
<td>Group B</td>
<td></td>
</tr>
<tr>
<td>Small Group Session</td>
<td>In-person sessions that involve small group work and discussion.</td>
</tr>
<tr>
<td>Open Lab Sessions</td>
<td>Time periods when teaching assistants will be available in the computer lab (physical or virtual) to assist students with lab assignments. Students are able to attend open lab sessions when it is most convenient for their schedules.</td>
</tr>
<tr>
<td>Recitation</td>
<td>Presentation by a teaching assistant or instructor that supplements course materials. Please reference schedule for mandatory and optional recitation sessions as well as online vs. in-person.</td>
</tr>
</tbody>
</table>

**General Enrollment Information:**

- All students have five business days after the start of a course to drop the course.
- Students may take other graduate-level courses at Pitt, subject to approval by their advisor and the ICRE.
- University offices are closed on Memorial Day (5/29), Juneteenth (6/19), and Independence Day (7/4).
- Please email icre@pitt.edu with questions regarding the ICRE course schedule.
<table>
<thead>
<tr>
<th>Format</th>
<th>Class Number</th>
<th>Subject / Catalog Number</th>
<th>Course Title</th>
<th>Course Format and Days / Time</th>
<th>Location</th>
<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Online Synchronous      | 15025        | CLRES 2005               | Computer Methods in Clinical Research                 | Introductory Session  
M  
July 3  
Group A  
9:00 AM – 12:00 PM  
Group B  
12:00 PM – 3:00 PM  
Group C  
3:00 PM – 6:00 PM  
Open Lab Sessions  
July 5, 6, 7  
No class July 4  
11:00 AM – 5:00 PM | Zoom      | Scott Rothenberger       | 1                                                     |
| Online Synchronous      | 15030        | CLRES 2010               | Clinical Research Methods                              | Small Group Sessions  
M, W, F*  
July 5 – August 25  
Group A  
10:30 AM - 11:30 AM  
Group B  
11:45 AM - 12:45 PM  
Combined Recitation (optional)  
W  
July 12 - August 23  
1:00 PM – 2:00 PM | Zoom      | Gretchen White  
Cristina Murray-Krezan  
Kenneth Smith | 3                                                     |
<table>
<thead>
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<th>Instructor(s)</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Online Synchronous      | 15028        | CLRES 2020                 | Biostatistics                 | **Lectures**  
M, W, F  
July 5 - August 25  
8:30 AM – 10:00 AM  
**Recitation**  
Tu, Th  
July 11 - August 24  
**Group A**  
11:30 AM – 12:30 PM  
**Group B**  
1:30 PM – 2:30 PM  
**Open Lab Sessions**  
M  
July 10 - August 21  
2:00 PM – 5:00 PM | Zoom       | Joyce Chang, Jonathan Yabes | 4                  |
| Online Synchronous      | 15015        | CLRES 2040                 | Measurement in Clinical Research | **First Session**  
Th  
July 6  
8:30 AM – 10:30 AM  
**Sessions**  
Th  
July 13 – August 17  
8:30 AM – 10:00 AM  
**Final Exam**  
Th  
August 24  
8:30 AM – 10:30 AM | Zoom       | Galen Switzer, Jackie Rankine | 1                  |
<p>| Other                   | 14972        | CLRES 2080                 | Master’s Thesis Research*     | Please see instructor.                                             |          | Thomas Radomski               | 1 – 3   |
| Other                   | 14973        | CLRES 2085                 | Independent Study*            | Please see instructor.                                             |          | Thomas Radomski               | 1 – 3   |</p>
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</tr>
</thead>
<tbody>
<tr>
<td>Other</td>
<td>15013</td>
<td>CLRES 2086</td>
<td>Clinical Research Teaching Practicum*</td>
<td>Please see instructor.</td>
<td></td>
<td>Thomas Radomski</td>
<td>0.5-3</td>
</tr>
<tr>
<td>Other</td>
<td>14974</td>
<td>CLRES 2124</td>
<td>Directed Study in DA &amp; CEA</td>
<td>Please see instructor.</td>
<td></td>
<td>Cindy Bryce, Mark Roberts, Ken Smith</td>
<td>1-3</td>
</tr>
<tr>
<td>Other</td>
<td>14975</td>
<td>CLRES 2320</td>
<td>Clinical Trials Practicum*</td>
<td>Please see instructor.</td>
<td></td>
<td>Kaleab Abebe</td>
<td>2-3</td>
</tr>
<tr>
<td>In-Person</td>
<td>15011</td>
<td>CLRES 2601</td>
<td>Principles and Practice of Palliative Care – Part I</td>
<td>Th 8:00 AM – 9:00 AM July 13 – November 2</td>
<td>Iroquois Building Conference Room 405</td>
<td>Rene Claxton</td>
<td>1</td>
</tr>
<tr>
<td>In-Person</td>
<td>15014</td>
<td>CLRES 2700</td>
<td>Fundamentals of Bench Research**</td>
<td>Lectures M, Tu, W, Th, F 9:00 AM - 5:00 PM July 17 – July 26 Final Exam Th 9:00 AM July 27</td>
<td>TBD</td>
<td>Jonathan Alder, Corrine Kliment</td>
<td>2</td>
</tr>
<tr>
<td>Other</td>
<td>14976</td>
<td>CLRES 2725</td>
<td>Translational Research Practicum*</td>
<td>Please see instructor.</td>
<td></td>
<td>Patrick Pagano</td>
<td>1-3</td>
</tr>
<tr>
<td>Other</td>
<td>14977</td>
<td>CLRES 3010</td>
<td>PhD Independent and Directed Research*</td>
<td>Please see instructor.</td>
<td></td>
<td>Galen Switzer</td>
<td>1-6</td>
</tr>
<tr>
<td>Format</td>
<td>Class Number</td>
<td>Subject / Catalog Number</td>
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</tr>
<tr>
<td>Other</td>
<td>16029</td>
<td>CLRES 3010</td>
<td>PhD Independent and Directed Research*</td>
<td>Please see instructor.</td>
<td></td>
<td>Galen Switzer</td>
<td>1-6</td>
</tr>
<tr>
<td>Other</td>
<td>14978</td>
<td>CLRES 3040</td>
<td>PhD Dissertation Research*</td>
<td>Please see instructor.</td>
<td></td>
<td>Galen Switzer</td>
<td>1-14</td>
</tr>
</tbody>
</table>

*Requires program approved proposal prior to registration.
**Requires additional registration, contact Terri Dobransky (dobranskyta@upmc.edu) for more information.

*Last updated: June 14, 2023*

**Suggested list of Pitt departments to review course offerings:**
- Department of Behavioral and Community Health Sciences (BCHS)
- The Center for Bioethics and Health Law (BIOETH)
- Department of Biostatistics (BIOST)
- Department of Epidemiology (EPIDEM)
- Department of Health Policy and Management (HPM)
- Department of Human Genetics (HUGEN)
- Department of Infectious Diseases and Microbiology (IDM)
- Interdisciplinary Biomedical Graduate Program (INTBP)
- Biochemistry and Molecular Genetics Graduate Program (MSBMG)
- Cell Biology and Molecular Physiology Graduate Program (MSCBMP)
- Graduate Program in Immunology (MSIMM)
- Department of Pharmacology and Chemical Biology (MSMPHL)
- Graduate Program in Molecular Virology and Microbiology (MSMVM)
- School of Pharmacy (PHARM)

Students can use the [Pitt Class Search](#) to view Pitt classes online.