SYLLABUS PHYSICS 100 Undergraduate Seminar FALL 2015

Wednesday 3:00pm – 3:50pm
Room Neckers 218

Class Supervisors:

Prof. Mark Byrd        Tel: 618 453 2271   Email: mbyrd@siu.edu
Office Hours: TR 10:50-11:20am, MWF 10:00-11:00am & 1:50-2:30pm @ Neckers 477

Prof. Eric Chitambar   Tel: 618 453 2020   Email: echitamb@siu.edu
Office Hours: TR 8:30am-9:30am, W: 8:30am-12:30pm @ Neckers 480

Prof. Leo Silbert      Tel: 618 453 1062   Email: lsilbert@siu.edu
Office Hours: TR 8:30am-9:30am, W: 8:30am-12:30pm @ Neckers 489

One-Credit Hour Class
No Prerequisites
PASS/FAIL grade

This class provides an introduction to the Department of Physics and Physics Research at SIU. The class meets for one hour per week throughout the semester. Each week there is a presentation/discussion led by a Physics faculty, or a guest lecturer, about Physics and/or being a physicist.

There are no homeworks assigned to this class. Your final grade is based on your class attendance. To achieve a passing grade you MUST attend a MINIMUM of 12 out of 14 classes during the Fall semester. Attendance at the last class is mandatory.

Outline of topics to be covered

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<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
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<tr>
<td>1</td>
<td>Aug 26</td>
<td>Introduction to Physics: Introduction to Physics 100 What is Physics? Job prospects. Specializations. Professor Eric Chitambar (Physics)</td>
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<td>2</td>
<td>Sep 2</td>
<td>Special Topic 1: Eclipse 2017 Bob Baer (Physics)</td>
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<td>3</td>
<td>Sep 9</td>
<td>Special Topic 2: Teleportation and Quantum Information Professor Mark Byrd (Physics)</td>
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<td>4</td>
<td>Sep 16</td>
<td>Special Topic 3: Applications of Adsorption Professor Aldo Migone (Physics)</td>
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<td>5</td>
<td>Sep 23</td>
<td>Special Topic 4: Quantum Information Professor Eric Chitambar (Physics)</td>
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<td>6</td>
<td>Sep 30</td>
<td>Special Topic 5: Materials Science at SIU Professor Saikat Talapatra (Physics)</td>
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<td>7</td>
<td>Oct 7</td>
<td>Special Topic 6: Soft Physics and soft things around us Professor Leo Silbert (Physics)</td>
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<td>8</td>
<td>Oct 14</td>
<td>Special Topic 7: Magnetic Refrigeration Professor Naushad Ali (Physics)</td>
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9 Oct 21 Special Topic 8: Computational Physics and Simulating Physical Problems  
Professor Thushari Jayasekera (Physics)

10 Oct 28 Special Topic 9: Your Topic  
Professor Dipanjan Mazumdar (Physics)

11 Nov 4 Special Topic 10: Your Topic  
Professor Siva Poopalasingam (Physics)

12 Nov 11 Veterans Day Holiday

13 Nov 18 Special Topic 11: Guest Speaker 1

14 Nov 25 Thanksgiving Break

15 Dec 2 Special Topic 12: Guest Speaker 2

16 Dec 9 Conclusions/Discussion: Evaluations/Survey

Please be aware of the SIUC Student Conduct Code available at the SIUC website:
http://srr.siu.edu/student_conduct_code

Please also note the following emergency procedures policy. Make sure you review the emergency response information available at the websites listed below or dotted around campus buildings.

**Emergency Procedures.** Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT's website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. **It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency.** The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.