**INTER 100**

**Introduction to Graduate Studies**

**9:00 AM - 11:30 AM**

**3 credit hours**

The goal of the LSUHSC-NO Postbaccalaureate Research Education Program (PREP) in Biomedical Sciences is to prepare individuals from backgrounds underrepresented in the biomedical sciences, who have recently completed their baccalaureate science degrees, for successful enrollment, retention, and completion of a PhD training program during a one-year research education program. The goal of this course is to prepare the PREP Scholars for graduate courses.

**Course Co-Directors**

Allison Augustus-Wallace, PhD

Department of Medicine and SOM, Office of Diversity and

Community Engagement

Awall1@lsuhsc.edu

Lisa M. Harrison-Bernard, PhD

Department of Physiology

lharris@lsuhsc.edu

Fern Tsien, PhD

Department of Genetics

fmille@lsuhsc.edu

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| Date | Room Number | Topic | Lecturer |
| Aug 1 | MEB 7158 | Introduction to Biochemistry & Molecular Biology | Dr. Augustus-Wallace |
| Aug 2 | MEB 7158 | Introduction to the Principles of enzyme catalysis | Dr. Augustus-Wallace |
| Aug 5 | MEB 7158 | Introduction to Protein expression and purification | Dr. Augustus-Wallace |
| Aug 7 | MEB 7158 | Course overview; intramolecular forces | Dr. Haas |
| Aug 9 | MEB 7158 | Amino acids as protein building blocks | Dr. Haas |
| Aug 12 | MEB 7158 | Protein structure and the “Folding Problem” | Dr. Haas |
| Aug 16 | MEB 7158 | Sequence alignments, BLAST, and molecular graphics | Dr. Haas |
| Aug 19 | MEB 7158 | Physical methods to characterize proteins | Dr. Haas |
| Aug 21  | CSRB 752 | Skills Workshop: Submitting an abstract for a scientific conference | Dr. Tsien |
| Aug 23 | MEB 7158 | Principles of enzyme catalysis | Dr. Haas |
| Aug 26  | CSRB 752 | Skills Workshop: Scientific presentation | Dr. Tsien |
| Aug 28 | MEB 7158 | Enzyme kinetics and assays | Dr. Haas |
| Aug 30 | MEB 7158 | Protein expression and purification | Dr. Haas |
| Sept 2 | MEB 7158 | **Biochemistry MIDTERM EXAM** | Drs. Augustus-Wallace/Haas |
| Sept 5 | MEB 3214 | General transcription | Dr. Hollenbach |
| Sept 10 | MEB 3214 | RNA processing | Dr. Hollenbach |
| Sept 12 | MEB 3214 | Protein translation | Dr. Hollenbach |
| Sept 17 | MEB 3214 | Prokaryotic gene regulation | Dr. Hollenbach |
| Sept 19 | MEB 3214 | Eukaryotic gene regulation | Dr. Hollenbach |
| Sept 24 | MEB 3214 | **Molecular Biology FINAL EXAM** | Drs. Tsien/Hollenbach |
| Oct 1 | MEB 7229 | GRE Quantitative Reasoning Skills | Dr. Harrison-Bernard |
| Oct 8 | MEB 7229 | GRE Verbal Reasoning Skills | Dr. Harrison-Bernard |
| Oct 15 | MEB 7229 | GRE Writing Skills | Dr. Harrison-Bernard |
| Nov 1 |  | Presentation at Local/National Scientific Conference | Dr. Tsien |

Homework - 20%; Class Participation & Poster Presentation at Local/National Scientific Conference- 30%; Biochemistry Midterm Exam - 25%; Final Exam - 25%