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| **Qtr** | **Course #** | **Course Title** | **Length/Units** |
|  | **REQUIRED CMP Courses**  **CMP faculty directing course are bolded** | |  |
| W | **PHAR/**BIOM 255 | Molecular Basis of Drug Action and Disease Therapy I: (**Sunahara/Joiner**) | 1 quarter/3 |
| F | **PHAR** 236 | Pharmacokinetics (Chen) | 5 sessions/1 |
| S | **PHAR** 231 | Fundamentals of Rigor and Reproducibility (**Daneman/Newton**) | 5 sessions/1 |
| S | **PHAR** 234 (Odd yrs) | Careers in Biomedical Science (**Newton**/Hamilton) | 5 sessions/1 |
|  | **REQUIRED CMP Interdisciplinary Training** | |  |
| F, W, S | **PHAR** 295 | Research Discussions  Weekly attendance is required in years during which a student is supported by the training grant, and encouraged in subsequent years, although credit is given only once. You must always sign in. | weekly/1 |
| W  F, S | **PHAR** 275 | Seminars in Pharmacology (PHAR 275)  Pharmacology Seminar Series  Attendance at Department seminars is required in years during which a student is supported by the training grant and encouraged in subsequent years. You must always sign in. | weekly/2 |
|  | **REQUIRED Quantitative and Analytical CMP Courses** | |  |
| S | **PHAR** 227 (Odd yrs) | Fluorescence Spectroscopy for Studying Intracellular Signaling and Macromolecular Structure (**Zhang/Taylor**) | 2 weeks/1 |
| S | **PHAR** 231 (Odd yrs) | Current Topics in Pharmacology: Intro to Python Programming (**Schoeneberg**) | 5 sessions/1 |
|  | **SUGGESTED CMP Advanced Courses** | |  |
| W | **PHAR** 222/BIOM 256 | Fundamentals of Cancer Biology (**Yang**/Dowdy/**Furnari**) | 1 quarter/3 |
| S | PHAR 231 | Neurovascular and Cardiovascular Biology (Lopez-Ramirez) | 5 sessions/1 |
| W | SPPS 263A | Principles of Pharmaceutical Sciences and Drug Development **(O'Donoghue/Abagyan)** | 1 quarter/3 |
| S | SPPS 263B | Principles of Pharmaceutical Sciences and Drug Development (**Ballatore**/Caffrey/**Hook**) | 1 quarter/3 |
| W | **PHAR**/SPPS 268 | Systems-Wide Mass Spectrometry: Proteomics and Metabolomics (**Bandeira/Dorrestein**) | 1 quarter/2 |