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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  |
| W  | **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  |  weekly/1  |
| F,W,S  |  **PHAR** 275 | Seminars in Pharmacology (PHAR 275) and Pharmacology Seminar SeriesTopics change yearly. Weekly attendance at Departments seminars is required in years during which a student is supported by the training grant, and encouraged in subsequent years  |  weekly  |
|  | **REQUIRED Quantitative and Analytical CMP Courses (only one is required)**  |  |
| W  | **PHAR**/SPPS 268  | Systems-Wide Mass Spectrometry: Proteomics and Metabolomics (**Bandeira/Dorrestein**)  |  1 quarter/2  |
| S  |  **PHAR** 227 (Odd yrs)  | Fluorescence Spectroscopy for Studying Intracellular Signaling and Macromolecular Structure (**Zhang/Taylor**)  |  2 weeks/1  |
| F  | **PHAR** 231 (Even yrs)  | Current Topics in Pharmacology: Intro to Python Programming - A (**Schoeneberg**)  |  5 sessions/1  |
| F  | **PHAR** 231 (Odd yrs)  | Current Topics in Pharmacology: Advanced Python Programming - B (**Schoeneberg**)  |  5 sessions/1  |
|  | **Suggested CMP Advanced Courses**  |  |
| 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** 222/BIOM 256  |  Fundamentals of Cancer Biology (**Yang**)  |  1 quarter/3  |
| S  | **PHAR** 224 (Odd yrs) |  Cancer as a Disease: Translation, Diagnosis, and Therapy (**Furnari**)  | 1 quarter/3  |