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|  | **Course #** | **Course Title** | **Length/Units** |
| **REQUIRED Courses for CMP Trainees**  **\*\*These courses satisfy BMS Core course requirements\*\*** | | | |
| W | **PHAR/**BIOM 255B | \*\*Molecular Basis of Drug Action and Disease Therapy (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 |
| **INTERDISCIPLINARY Training for CMP Trainees** | | | |
| 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  Topics 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 |
| **Quantitative and Analytical ELECTIVES (select at least one)** | | | |
| W | **PHAR**/SPPS 268 | \*\*Systems­Wide 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) | 2 weeks/1 |
| F | **PHAR** 231 (Even yrs) | \*\*Current Topics in Pharmacology: Intro to Python Programming - A (Schoeneberg) | 5 sessions/1 |
| **Suggested ELECTIVES for CMP Trainees** | | | |
| W | SPPS 263A | \*\*Principles of Pharmaceutical Sciences and Drug Development (O'Donoghue/Podust/Abagyan) | 1 quarter/3 |
| S | SPPS 263B | \*\*Principles of Pharmaceutical Sciences and Drug Development (Caffrey/Hook) | 1 quarter/3 |
| W | **PHAR** 222/BIOM 256 | Fundamentals of Cancer Biology (Yang/Dowdy/Furnari) | 1 quarter/3 |

**Curriculum for the Cellular and Molecular Pharmacology (CMP) Training Program**

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