

# BIOTECHNOLOGY TRAINING OPPORTUNITIES and TIMELINE

## **Biotechnology Program Activities (throughout WSU career):**

- ☐ Monthly Biotech Forum (meets 1<sup>st</sup> Wednesday @ 4PM, 8 meeting/year, spring and fall semester)
- ☐ Annual Biotechnology Symposium presentations (each spring)
- ☐ Reports for reflection and NIH accountability (each fall, also at end of 24-mo financial assistantship)
- ☐ Biotech committee activity (occasional, we have various opportunities)

## **Rotations and Lab Selection (1<sup>st</sup> year): [Jump to guidance](#)**

- ☐ Submit [Rotation Plan](#). Meet with director & coordinator. First week of fall semester.
- ☐ Submit [Rotation Report #1/NIH Report](#). Due October 15.
- ☐ Submit [Rotation Report #2](#) online. Due December 15.
- ☐ Submit [Rotation Report #3](#) online. Due March 1. Meet with director & coordinator.
- ☐ **Print** and sign [Thesis Selection Form](#). Send to [Director](#) & [Coordinator](#). Due upon selecting lab.

## **2-3 month Industrial Internship (by end of 2<sup>nd</sup> year) [Jump to guidance](#)**

- ☐ Submit [Internship Plan](#) online. Meet with director & coordinator. Print and sign [Internship Approval Form](#) (due before you leave for internship).
- ☐ Submit [Internship Report](#) online (due upon return.)
- ☐ Present on your internship to the program (will be coordinated by student officers).

## **Coursework**

- ☐ MPS/MBIOS/CHE 574 (Protein Biotechnology) (Cohort class, **Fall of first year**)
- ☐ MBIOS 513 (General Biochemistry I) (**Fall, most take first year**)
- ☐ **THREE** specific one-credit modules in Topics in Biomedical Experimentation (listed in various departments as X\_564). Can be done sequentially or concurrently (**Spring of 1<sup>st</sup> year**).
  - ☐ Biomedical Ethics   ☐ Responsible Conduct in Research   ☐ Experimental Design
- ☐ Complete three credits of electives (one class) from the elective list. ([jump to list of eligible electives](#)).

## **Graduate College Certificate**

- ☐ Fill out [application from the Graduate College](#). Please [note](#) the deadlines and fee payments are before you schedule your PhD defense.

## Biotechnology Training Program

### Electives for Protein Biotechnology Certificate

NOTE: The elective can simultaneously fulfill home program and Biotech requirements.

☐ Completed one (or more) of the following electives:

- ☐ BIO\_ENG 550 (Cellular Bioengineering)
- ☐ CHE 560 (Biochemical Engineering)
- ☐ CHE 581 (Biofilms)
- ☐ CHE 581-07 (Molecular Dynamics Simulations for Bioengineers)
- ☐ CHEM 543 (Bioorganic Chemistry)
- ☐ CHEM 572 (Reaction Enzyme Mechanisms)
- ☐ E\_MIC 586/587 (Special Topics and Projects in Electron Microscopy)
- ☐ HORT 518 (Postharvest Biology and Technology)
- ☐ MBIOS 501 (Cell Biology)
- ☐ MBIOS 503 (Advanced Molecular Biology)
- ☐ MBIOS 514 (General Biochemistry II)
- ☐ MBIOS 540 (Immunology)
- ☐ MBIOS 542 (General Virology)
- ☐ MBIOS 578 (Bioinformatics)
- ☐ MPS 525 (Plant Molecular Genetics)
- ☐ PL\_P 535 (Molecular Genetics of Plant-Pathogen Interactions)
- ☐ VET\_PH 505 (Design and Analysis of Biomedical Experiments)
- ☐ VET\_PH 555 (General and Cellular Physiology)