

Master of Science in Pharmaceutical Sciences
Specialization in Industrial Pharmacy

PLAN A STUDENTS

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|--------------|-------------------|
| Core | 12 credits |
| Electives | 12 credits |
| Research | 6 credits |
| <u>Total</u> | <u>30 credits</u> |

PLAN B STUDENTS

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|--------------------|-------------------|
| Core | 12 credits |
| Electives | 21 credits |
| Academic portfolio | 0 credits |
| <u>Total</u> | <u>33 credits</u> |

Core Courses:

| <u>Course #</u> | <u>Name</u> | <u>Credits</u> |
|-----------------|---|----------------|
| IPP 265 | Introduction to Industrial Pharmacy I | 3 |
| IPP 266 | Introduction to Industrial Pharmacy II | 3 |
| IPP 237 | Industrial Pharmacy | 3 |
| IPP 241 | Advanced Biopharmaceutics | 3 |
| IPP 900 | Masters Research (For Plan A only; to be registered at least twice) | 3 |

Elective Courses:

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|--------------|--|---|
| IPP 101 | Special Problems | 3 |
| IPP 231&231L | Principles of Manufacturing Pharmacy, Lecture & Laboratory | 4 |
| IPP 233 | Industrial Pharmacy Journal Club | 2 |
| IPP 234 | Pharmaceutical Materials | 3 |
| IPP 235&235L | Product Formulation, Lecture & Laboratory | 4 |
| IPP 236 | Evaluation of Pharmaceutical Dosage Forms | 3 |
| IPP 247 | Special Drug Delivery Systems | 3 |
| IPP 250 | Targeted Drug Delivery Systems | 3 |
| IPP 255 | Biotechnological Drug Delivery Systems | 3 |
| IPP 267 | Advanced Physical Pharmacy | 3 |
| IPP 271 | Degradation and Stability of Pharmaceutical Systems | 3 |
| IPP 273 | Pharmacokinetic and Pharmacodynamic Data Analyses | 3 |
| PAS 252 | Biopharmaceutical statistics | 3 |