Students in the PPC program are required to complete a total of 24.0 credits including 9.0 credits of required courses and 15.0 credits of general electives which may include introductory or advanced science or management courses and capstone opportunities (the Team Masters Project or Independent Research).

A summary of the PPC curriculum is as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALS 320 Medical Diagnostics</td>
<td>3.0</td>
</tr>
<tr>
<td>ALS 321 Medical Devices</td>
<td>3.0</td>
</tr>
<tr>
<td>ALS 398 Premedicine Professional Development</td>
<td>3.0</td>
</tr>
<tr>
<td>General Electives (may include capstone option)</td>
<td>15.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>24.0</strong></td>
</tr>
</tbody>
</table>

List of Available Elective Courses: Elective Courses available to PPC students include all the core and advanced electives courses in the MBS program. Courses may have pre-requisites. If you are thinking of returning for master’s degree, then consider these:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALS 300 Molecular Biotechnology</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 312 Introduction to Bioprocessing</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 330 Pharmaceutical Discovery</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 333 Pharmaceutical Development</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 341 Bioindustry Ethics and Society</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 350 Finance and Accounting Principles</td>
<td>1.5</td>
</tr>
<tr>
<td>ALS 351 Corporate Finance</td>
<td>3.0</td>
</tr>
<tr>
<td>ALS 354 Bioscience Strategy</td>
<td>3.0</td>
</tr>
<tr>
<td>ALS 359 Intro. to Bioscience Industries</td>
<td>3.0</td>
</tr>
<tr>
<td>ALS 362 Intro. to US Food and Drug Law</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Technical Courses
- 401 Biotechnology-Based therapeutics (3.0)
- 402 Molecular Basis of Disease (3.0)
- 405 Advanced Medical Devices I (Drug Delivery) (1.5)
- 406 Advanced Medical Devices II (Biosensors) (1.5)
- 407 Pharmacogenetics and Personalized Medicine (3.0)
- 408 Advanced In Vitro Diagnostics (3.0)
- 409 Technologies for Biomarker and Drug Discovery (1.5)
- 410 Microbial Fermentation Laboratory (1.5)
- 411 Biomedical Data Systems and Informatics (1.5)
- 412 Biosignal Processing (1.5)
- 418 Biopharmaceutical Quality Assurance and Control (1.5)
- 419 Chemistry, Manufacturing, and Controls Reg. of Pharm. (1.5)
- 420 Fundamentals of Microbial Bioprocessing (1.5)
- 421 Mammalian Cell Culture and Microbial Fermentation Lab (3.0)
- 422 Bioseparations Lab (1.5)
- 423 Fundamentals of Commercial Biotech Operations (1.5)
- 425 Device and Diagnostic Product Development (3.0)
- 427 Mammalian Cell Biotechnology (1.5)
- 428 Advanced Bioprocessing Research (1.5)
- 429 Bioseparations Engineering and Science (1.5)
- 430 Advanced Pharmaceutical Discovery (3.0)
- 431 Bioprocess Engineering Principles (1.5)
- 432 Writing an Orphan Drug Application (1.5)
- 433 Design of Clinical Trials (1.5)
- 434 Clinical Biostatistics (3.0)
- 435 Medical Device Regulatory Affairs (1.5)
- 437 Clinical Pharmacology I (3.0)
- 438 Clinical Pharmacology II (3.0)

Technical Courses (continued)
- 439 Drug and Biologic Regulations (1.5)
- 463 Current Issues for FDA Regulated Products (3.0)
- 465 International Regulations (3)

Business Courses
- 424 Business Operations (3.0)
- 448 Organizational Analytics (1.5)
- 449 Leadership in Organizations (1.5)
- 451 Organizational Behavior (3.0)
- 452 Healthcare Economics (1.5)
- 453 International Business (1.5)
- 455 Marketing Management (3.0)
- 456 Managing Strategic Alliances (1.5)
- 457 Building an Entrepreneurial Organization (1.5)
- 458 Applied Entrepreneurship (3.0)
- 459 Marketing Analytics (1.5)
- 470 Intellectual Property Strategy (1.5)
- 471 Innovation Management (1.5)
- 472 Valuation in Applied Life Science (1.5)
- 473 Drug Pricing and Reimbursement (1.5)

Professional Skills
- 460 Advanced Writing and Editing (1.5) for Professional Publications

Technical or Business Depending on Topic
- 493 Independent Research (1.5 or 3.0)
- 497 Independent Study (1.5 or 3.0)