

BSPS Degree Requirements Checklist (120 credits required – 50 credits must be completed at the U-M Ann Arbor campus while enrolled in the BSPS program)

I. General Education Requirements (18cr):

- First Year Writing Requirement Course (4cr)*
- Humanities or foreign language **and** Social Sciences (2 courses **in each requirement**) (14cr) **

* No more than 1 AP/IB course can be used towards each requirement in Humanities/foreign language and social sciences

II. Math/Science/Lab Requirements: Math (8cr), Science (32cr), Lab (9cr) (49cr)

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| <input type="checkbox"/> <i>Biology 171(4cr)</i> | <input type="checkbox"/> <i>Chemistry 210 (3cr)</i> | <input type="checkbox"/> <i>Physics 140/150 (4cr) & Lab 141/151 (1cr)</i> |
| <input type="checkbox"/> <i>Biology 172 (4cr)</i> | <input type="checkbox"/> <i>Chemistry Lab 211 (2cr)</i> | <input type="checkbox"/> <i>Math 115 Calculus I (4cr)</i> |
| <input type="checkbox"/> <i>Biology Lab 173 (2cr)</i> | <input type="checkbox"/> <i>Chemistry 215 (3cr)</i> | <input type="checkbox"/> <i>Statistics 250 (4cr)</i> |
| <input type="checkbox"/> <i>Chemistry Lab 125 (1cr)</i> | <input type="checkbox"/> <i>Chemistry Lab 216 (2cr)</i> | <input type="checkbox"/> <i>Physiology 201 or 502 (4cr)</i> |
| <input type="checkbox"/> <i>Chemistry Lab 126 (1cr)</i> | <input type="checkbox"/> <i>Chemistry 230 or 260 (3cr)</i> | |
| <input type="checkbox"/> <i>Chemistry 130 (3cr)</i> | <input type="checkbox"/> <i>Biochem 415/Mcdb 310/Chem 351 (4cr)</i> | |

III. BSPS Requirements (Years 2-4) (24cr)

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| <ul style="list-style-type: none"> <input type="checkbox"/> F2: P200 Science of Medicines (3cr)
Health professions, Healthcare System, Health finance
Prerequisites: none. <input type="checkbox"/> F2: P202 Seminar – BSPS Career Exploration (1cr)
Broad focus on health professions
Prerequisites: none. <input type="checkbox"/> W2: PS101 Molecules to Drugs and Products I (MDDP-I) (2cr)
Drug Discovery and Development in the Modern Era.
Prerequisites: none. <input type="checkbox"/> F/W2: P117 (Pain Management) or P217 Intro to Precision Hlth (1cr)
Basics of pain, from neuroanatomy to medications.
Lecture series focusing on precision health topics.
P117 offered fall and winter, P 217 offered winter. <input type="checkbox"/> W2: P212 Seminar – Contemporary Research (1cr)
Focus on research in CP, MD, PS
Prerequisites: none. <input type="checkbox"/> F3: PS300 Biopharmaceutics/Biology of Drug Delivery (3cr)
Drug properties, transport, absorption, PK, ADME
Prerequisites: General Chemistry with Lab
Advisory Prerequisite: Calc I | <ul style="list-style-type: none"> <input type="checkbox"/> F3: P302 Seminar – Personal Professional Develop. (1cr)
High touch, focus on careers in health science/professions
Prerequisites: none. <input type="checkbox"/> W3: MC310 Principles of Drug Action (3cr)
Drug properties, Pharmacology, Med Chem principles
Focus on concepts, background needed to succeed in MC 500
Prerequisites: Biochem 415/Mcdb 310/Chem 351 <input type="checkbox"/> W3: P412 Clinical and Research Ethics, (1cr)
Ethics of Clinical Science & Research, Pharma in the news
Prerequisites: none. <input type="checkbox"/> F4: PS400 Pharmaceutics of Drug Products and Biotech (3cr)
Physical chemistry of drugs, dosage forms, routes of delivery,
biotechnology manufacture, delivery, products
Prerequisites: Gen Chem, Physical Chemistry, Calc I <input type="checkbox"/> F4: PS402 Seminar, - Seminar in PS, MC, or CP (1cr)
Prerequisites: BSPS students entering final year <input type="checkbox"/> W4: MC410 BSPS Laboratory (3cr)
Analytical methods for research, drugs, drug products
Prerequisites: BSPS students only, senior standing recommended
Advisory Prerequisite: MC310 <input type="checkbox"/> W4: PS402 Seminar - Seminar in PS, MC, or CP (1cr)
Prerequisites: BSPS students entering final year |
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IV. Electives (about 29 cr)