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

III. BSPS Requirements (Years 2-4) (24cr)
- F2: P200 Science of Medicines (3cr)
  Health professions, Healthcare System, Health finance
  Prerequisites: none.
- F2: P202 Seminar – BSPS Career Exploration (1cr)
  Broad focus on health professions
  Prerequisites: none.
- W2: PS101 Molecules to Drugs and Products I (MDDP-I) (2cr)
  Drug Discovery and Development in the Modern Era.
  Prerequisites: none.
- 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.
- W2: P212 Seminar – Contemporary Research (1cr)
  Focus on research in CP, MD, PS
  Prerequisites: none.
- F3: PS300 Biopharmaceutics/Biology of Drug Delivery (3cr)
  Drug properties, transport, absorption, PK, ADME
  Prerequisites: General Chemistry with Lab
  Advisory Prerequisite: Calc I
- F3: P302 Seminar – Personal Professional Develop. (1cr)
  High touch, focus on careers in health science/professions
  Prerequisites: none.
- 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
- W3: P412 Clinical and Research Ethics, (1cr)
  Ethics of Clinical Science & Research, Pharma in the news
  Prerequisites: none.
- 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
- F4: PS402 Seminar - Seminar in PS, MC, or CP (1cr)
  Prerequisites: BSPS students entering final year
- W4: MC410 BSPS Laboratory (3cr)
  Analytical methods for research, drugs, drug products
  Prerequisites: BSPS students only, senior standing recommended
  Advisory Prerequisite: MC310
- W4: PS402 Seminar - Seminar in PS, MC, or CP (1cr)
  Prerequisites: BSPS students entering final year

IV. Electives (about 29 cr)