### PATHWAYS
**Pharmaceutical Manufacturing Technology**
(A.A.S. Degree)
**FALL 2018-SPRING 2019**

#### REMEDIAL SEQUENCE (if required)
- [ ] ESL 1 (8)
- [ ] ESL 2 (6)
- [ ] ESL 3 (6)
- [ ] ENG 9 (4)
- [ ] ENG 1 (4)
- [ ] ENG 2 (4)
- [ ] RDL 1 (4)
- [ ] RDL 2 (6)
- [ ] MTH 1 (4)
- [ ] MTH 5 (6)
- [ ] MTH 6 (6)
- [ ] CHM 2 (4)

#### GRADUATION REQUIREMENTS
- [ ] CAT-R
- [ ] CAT-W
- [ ] CAT-M
- [ ] GPA ≥ 2.0
- [ ] Writing Intensive 1
- [ ] Writing Intensive 2
- [ ] FYS 11

#### REQUIRED COMMON CORE
- [ ] A English Composition
  - ENG 110 Fundamentals of Composition and Rhetoric OR ENG 111 Composition and Rhetoric I
  - 3
- [ ] C Life and Physical Sciences
  - CHM 11 General Chemistry I
  - 4

#### FLEXIBLE COMMON CORE
- [ ] A World Cultures and Global Issues
  - HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World
  - 3
- [ ] D Individual and Society
  - COMM 11 Fundamentals of Interpersonal Communication
  - 3
- [ ] E Scientific World
  - CHM 12 General Chemistry II
  - 4
- [ ] E Additional Flexible Core Requirement – Scientific World
  - BIO 11 General Biology
  - 4

#### MAJOR REQUIREMENTS
- [ ] ART 10 Art Survey
  - 1
- [ ] BIO 12 General Biology II
  - 4
- [ ] CHM 27 Principles of Laboratory Safety
  - 2
- [ ] CHM 31 Organic Chemistry I
  - 5
- [ ] CHM 32 Organic Chemistry II
  - 5
- [ ] CHM 37 Quantitative Instrumental Analysis
  - 4
- [ ] CHM 38 Computer Applications in Chemistry
  - 2

#### RESTRICTED ELECTIVES
Select any two from the following: (5-6 credits)
- CHM 39 Foundations of Pharmaceutical Process Technology
- CHM 40 Pharmaceutical and Chemical Technology
- PMT 41 Pharmaceutical Chemistry
- PMT 42 Pharmaceutical Product Preparation
- PMT 43 Pharmaceutical Laws and Regulations

#### ELECTIVES
- [ ] Free Electives to complete the 60 credit requirement
  - 1-2
- [ ] ENG 223 Technical Writing
  - 3
- [ ] MTH 13 Trigonometry and College Algebra
  - 3
- [ ] MTH 14 Algebra and Introduction to Calculus
  - 3

#### TOTAL: 60

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1. Students can substitute PHY 11 for BIO 12. Students who wish to substitute both PHY 11 and PHY 12 for BIO 11 and BIO 12 need department approval.
2. Students can substitute MUS 10, or any PEA one-credit course, or CPR 10, or WFA 10 for ART 10.
3. Students intending to transfer to four-year programs should substitute MTH 30 and MTH 31 and 32 for MTH 13 and MTH 14.
4. Students may choose any combination of restricted electives CHM 39, CHM 40, PMT 41, PMT 42 and PMT 43 to meet the program credits requirement.

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This document is for advisement purposes only and does not represent an official listing of degree requirements; please consult the college catalog, as well as DegreeWorks via the CUNY Portal.

(Reviewed/Revised 7/19/18)