In 1941 the General Assembly took over the assets of the Connecticut College of Pharmacy and added this institution to the schools and colleges of the University of Connecticut. The pharmacy program, which had been "inaugurated under independent auspices" in New Haven in 1925, continued to operate there under State auspices until 1951, when the program was moved to Storrs.

The School of Pharmacy is phasing out the three-year professional B.S. in Pharmacy program (preceded by a two-year pre-professional course of study), the last class admitted to this program was fall 1996. The current professional doctor of pharmacy program (Pharm.D.) requires completion of the two years of pre-Pharmacy requirements, two years in the professional program leading to a Bachelor of Science with a major in Pharmacy Studies (BS Pharmacy Studies), followed by two additional years leading to a Doctor of Pharmacy (Pharm.D.). This professional BS/Pharm.D. program is a full-time four-year professional program (132 credits professional program plus 64 credits pre-pharmacy for a total of 196 credits), making the Pharm.D. graduate eligible to stand for licensure. Students admitted to the University as freshmen in fall 1995 or thereafter should anticipate entering the Pharm.D. program rather than the B.S. in Pharmacy program. For the last two years of the professional program (Pharm.D. years), there will be additional tuition and required fees of approximately $5000 per year (1996-97 dollars) for in-state students and proportional increases for New England Regional and out-of-state students.

The School of Pharmacy also offers a number of courses leading to the degrees of Master of Science and Doctor of Philosophy. Students holding the degree of Bachelor of Science may prepare for the Doctor of Philosophy degree with a major in pharmaceutics, medicinal and natural products chemistry, pharmacology or toxicology. The Master of Science degree in pharmaceutical sciences may be awarded in the above subject areas and pharmacy administration. (see the Graduate School Catalog.)

Regional Plan. In conformity with plans approved by the Boards of Trustees of the six New England land grant universities for regionalization of certain fields of specialized education, the University of Connecticut School of Pharmacy has been designated as a regional New England school for all other New England states except Rhode Island. To effectuate this policy, first priority in admission to the school is given to qualified applicants who are residents of Connecticut and second priority to qualified applicants from the other New England states with the exception of Rhode Island. Regional students receive a significant tuition savings over out-of-state tuition rates.

Admission. Admission to the professional program in Pharmacy is competitive. Students should apply for admission to the School of Pharmacy after completion of their third semester of study for entry into the professional program in the following September. All required math and science courses must be completed by May for entry into the professional program in the following September. Students must have 24 of the 30 general education course credits completed, including Soc 107, Econ 111 and Coms 105, before admission into the fall semester. Students who have not fulfilled the University General Education requirements (Groups IVa, IVb, V and VI) before they enter the professional program will have to complete those courses during the summer sessions. Students entering the University after fall 1995 will complete their first two years in one of the schools or colleges of the University of Connecticut or in some other institution. Students may enter the College of Liberal Arts and Sciences as freshmen and identify themselves as pre-Pharmacy majors.

Those students who meet all the following criteria will be considered for admissions first: 1) completion of all
freshmen-sophomore course requirements at the University of Connecticut; 2) Earned a minimum of 3.0 grade point average (GPA) in all required math and science classes; 3) Earned a minimum GPA of 3.0 in English 105 and 109 or a grade of 3.0 in English 250; 4) Have no grade less than 2.0 in any of the above classes.

All other students will be considered on a competitive basis depending on seats available. To be competitive, students should have a total GPA and a science GPA of 2.7 or better. All required prerequisite science courses should have been passed with a grade of 2.0 or better.

Application deadline is **March 1** for September admission. Applications received after the deadline will be reviewed on a space available basis.

**Communication Skills.** It is essential that Pharmacy students have good written and oral communication skills. Students must be able to communicate effectively with patients, physicians and with other members of the health care team. The final applicant pool will be interviewed.

A Test of Spoken English (TSE) is required of all international applicants and U.S. citizens or permanent residents for whom English has not been the primary language. A minimum score of 50 is required for admission to the program.

**Scholastic Standards.** Students admitted to the professional pharmacy program must maintain the following standards of scholastic achievement to continue and/or complete the program:

1) A semester grade point average of 2.0 or above in required Pharmacy courses. (Students are subject to dismissal if there is more than one semester in which they earn a semester grade point average below 2.0 in required Pharmacy courses.)

2) A cumulative grade point average of 2.0 or above in all required Pharmacy courses is required to enroll in clinical clerkships/rotations.

3) A cumulative grade point average of 2.0 or above in all Pharmacy/University courses is required for graduation.

In addition, to demonstrate effective written and oral communication skills in English, the student must receive a grade of 2.0 or above in Interpersonal Skills Development (PHRM 206) and in Prescription Processing Lab (PHRM 210) to continue into the clinical experience sequence.

All required Pharmacy courses must be taken for a grade (i.e. may not be taken on Pass / Fail or Satisfactory / Unsatisfactory).

Failure to meet any of the requirements may result in dismissal of the student from the program.

The student has the right to appeal in writing to the Office of the Dean of the School of Pharmacy any dismissal decision.

**Honors Program.** Students in the School of Pharmacy may be eligible to participate in a variety of enrichment programs. These include independent research projects with a faculty mentor, the Degree with Distinction Program, the Honors Program, and the University Scholars Program. Each of these programs offers the motivated student a way of individualizing their intellectual environment to better meet their needs while providing distinction to their academic record. For more information on these programs, ask to speak with a Pharmacy Honors Advisor.

**Accreditation.** The University of Connecticut's Baccalaureate in Pharmacy program is accredited by The American Council of Pharmaceutical Education (ACPE), 311 West Superior Street, Suite 512, Chicago, IL 60610, 312/664-3575, 800/533-3606; FAX, 312/664-4652. The Board of Governors of the Department of Higher Education has licensed the University of Connecticut to accept students into the BS/PharmD. professional program. The University of Connecticut's Doctor of Pharmacy program is scheduled to be evaluated for candidate status during the academic year 1998-99 by the American Council on Pharmaceutical Education.
Health of Students. In addition to pre-entrance University requirements, students admitted to the School of Pharmacy must present evidence of the following: tuberculin test (PPD), rubella titer, Rubella titer, Varicella titer. Failure to provide the above stated certifications will result in students not being allowed into the clerkship or externship areas.

Transportation. Students must provide their own transportation to clerkship or externship sites during the professional program. They should allow for transportation expenses, which would include cost of gasoline and parking fees where necessary.

Insurance. It is mandatory that all students carry comprehensive health insurance either privately or through the University. The faculty reserves the right to recommend withdrawal from the pharmacy program for reasons of health. Students must show evidence of Student Malpractice Liability Insurance when they are involved in practice in clinical areas.

Additional Degrees. Students wishing to take a second degree in another school or college should consult the associate dean of the School of Pharmacy early in their professional program.

Intern Registration. It is mandatory that all Pharmacy students register with the Connecticut Board of Pharmacy upon admission to the Pharmacy professional program. Failure to receive and maintain a valid Pharmacy intern card will result in students not being allowed to participate in clerkship, externship, or any of the other practica component of the curriculum.

License to Practice Pharmacy. Any request for information concerning Connecticut internship training requirements and other qualifications for examination and licensure as a pharmacist should be addressed to The Board Administration, Commission of Pharmacy, State Office building, Hartford, Connecticut.

Degree Requirements for the Pharm.D. (B.S., B.S.P.) Upon recommendation of the faculty, the degree of Doctor of Pharmacy (Bachelor of Science in Pharmacy Studies, Bachelor of Science in Pharmacy) is awarded by vote of the Board of Trustees to students who have met the following requirements: (1) earned a total of 196 (125, 155) credits; (2) completed all requirements for the professional years and the Professional Program; (3) completed at least 30 credits of general education courses, defined as behavioral, social, and humanistic areas of knowledge; (4) satisfied the University's General Education Requirements; (5) earned at least a 2.0 grade point average for all calculable Upper Division course work; and (6) earned a 2.0 average for all calculable required Pharmacy courses.

Pharmacy Courses

Courses for the Doctor of Pharmacy (Pharm.D.)

REQUIRED COURSES FOR THE PROFESSIONAL DEGREE

I. General Education Requirements

The University Senate has adopted general Education requirements in a variety of curricula areas, which must be satisfied as part of every degree program. These requirements are listed in the Appendix of this Catalog. The course requirements listed are those of the School of Pharmacy and also satisfy the University requirements.*

* For the purpose of school and college curricula, skill code designations (W, Q, C) have not been applied to the respective courses. Skill code identification will be restricted to the Directory of Courses section.

Group 1. Foreign Languages

This requirement is met if the student enters the University with three years of a single language in high school,** or the equivalent. With anything less, a student must complete two semesters of a single language at the University.

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When the years of study have been split between high school and earlier grades, the requirement is met if the student has successfully completed the third-year high school level course.

**Group 2. Expository Writing**

English 105 and 109 are required, and must be followed by two W courses. Students passing English 250 will be exempted from the English 105, 109 requirement.

**Group 3. Mathematics**

All students must complete Math 113 or 115, an additional Q course, and one C course. Required Pharmacy courses will satisfy the Q and C requirements. (Note: Mathematics 101 or a passing grade on the Q-Course Readiness Test is a prerequisite to all Q courses.) In order to take Math 115 students must pass either the Calculus Readiness Test, or a precalculus course. Students who fail the Calculus Readiness Test must take Math 112 and 113.

**Group 4. Literature and the Arts**

All students must take two courses, one emphasizing major works of literature, and the other major achievements in art or music.

**Group 5. Culture and Modern Society**

All students must take History 100 or 101, and a course emphasizing non-Western culture.

**Group 6. Philosophical or Ethical Analysis**

All students must take one course in philosophical or ethical analysis.

**Group 7. Social Scientific and Comparative Analysis**

All students must take Economics 111 and one 100's level sociology course.

**Group 8. Science and Technology**

Required Pharmacy courses will satisfy this group requirement.

**II. Required Courses and Recommended Sequences for the Pre-professional Years**

**FIRST COLLEGE YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 127 General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 107 Principles of Biology</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 105 English Composition</td>
<td>3</td>
</tr>
<tr>
<td>MATH 115 Calculus I</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 128 General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>HIST 100 or 101***</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 121 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 109*** Literature and Composition</td>
<td>3</td>
</tr>
</tbody>
</table>

SECOND COLLEGE YEAR
First Semester

CHEM 243 Organic Chemistry  
ECON 111*** Principles of Economics  
MCB 229 Fundamentals of Microbiology  
COMS 105*** Principles of Public Speaking  
General Education Requirement

Credits

3
3
4
3
3

Second Semester

CHEM 244 Organic Chemistry  
SOC 107*** Introduction to Sociology  
MCB 203 Biochemistry  
General Education Requirements

Credits

3
3
4
6

Total pre-professional credits 64

**When the years of study have been split between high school and earlier grades, the requirement is met if the student has successfully completed the third-year high school level course.

***These courses need not be taken in the semester indicated but must be completed during the first two years.

I. The Professional Program

Students entering the professional program before fall 1997 will be following the three- year plan of study set out in previous catalogs leading to the B.S. degree in Pharmacy.

Students will be admitted to the Pharmacy Studies degree program after completion of the two year pre-Pharmacy program (64 credits).

First Professional Year

30 credits

Fall

219 General Principles and Organ System Overview  
233 Bio-Organic Chemistry I  
201 Pharmaceutical Care  
202 Health Care Organization  
203 Social Behavioral Aspects of Pharmacy  
204 Administrative Aspects of Pharmacy Pr. and Principles of Pharmacoeconomics  

Electives

Credits

3 cr
3 cr
1 cr
1 cr
2 cr
4 cr
14 cr

Spring

220 Nervous System  
234 Bio-Organic Chemistry II  
235 Bio-Organic Lab  
201 Pharmaceutical Care  
206 Interpersonal Skills Development  
Electives

Credits

5 cr
3 cr
1 cr
2 cr
5 cr
1998 - 1999 School of Pharmacy

Second Professional Year

31 credits

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>221 Cardiovascular/Renal/Respiratory</td>
<td>4 cr</td>
</tr>
<tr>
<td>223 Solution Dosage Forms</td>
<td>3 cr</td>
</tr>
<tr>
<td>242 Solid Dosage Forms</td>
<td>1 cr</td>
</tr>
<tr>
<td>244 Dosage Forms Prep Lab I</td>
<td>1 cr</td>
</tr>
<tr>
<td>245 Pharmacokinetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>253 Therapeutics I</td>
<td>2 cr</td>
</tr>
<tr>
<td>207 Pharmaceutical Care</td>
<td>1 cr</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>15 cr</strong></td>
</tr>
</tbody>
</table>

**Spring**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>222 Endocrine/GI Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>246 Dispersed Systems</td>
<td>3 cr</td>
</tr>
<tr>
<td>208 Pharmacy Law and Ethics</td>
<td>3 cr</td>
</tr>
<tr>
<td>254 Therapeutics</td>
<td>3 cr</td>
</tr>
<tr>
<td>207 Pharmaceutical Care</td>
<td>3 cr</td>
</tr>
<tr>
<td>297 Pathobiology</td>
<td>1 cr</td>
</tr>
<tr>
<td>247 Dosage Forms Prep Lab II</td>
<td>1 cr</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td><strong>16 cr</strong></td>
</tr>
</tbody>
</table>

Total Credits for Bachelor of Science in Pharmacy Studies: 125 credits

Doctor of Pharmacy

71 credits

Students will be admitted to the Pharm.D. degree program after earning the BS in Pharmacy Studies at the School of Pharmacy, University of Connecticut

Third Professional Year

35 credits

**Fall**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>225 Toxicology</td>
<td>2 cr</td>
</tr>
<tr>
<td>224 Chemotherapy</td>
<td>2 cr</td>
</tr>
<tr>
<td>55 Therapeutics III</td>
<td>2 cr</td>
</tr>
<tr>
<td>257 Clinical Pharmacokinetics</td>
<td>3 cr</td>
</tr>
<tr>
<td>223 Pharmacology Discussion/Lab</td>
<td>1 cr</td>
</tr>
<tr>
<td>209 Pharmaceutical Care</td>
<td>1 cr</td>
</tr>
<tr>
<td>Course</td>
<td>Credits</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>200 Evaluation Skills</td>
<td>3 cr</td>
</tr>
<tr>
<td>Electives</td>
<td>3 cr</td>
</tr>
<tr>
<td><strong>Spring</strong></td>
<td><strong>17 cr</strong></td>
</tr>
<tr>
<td>226 Immunology</td>
<td>3 cr</td>
</tr>
<tr>
<td>256 Therapeutics IV</td>
<td>3 cr</td>
</tr>
<tr>
<td>211 Introduction to Clinical Practice</td>
<td>2 cr</td>
</tr>
<tr>
<td>212 Prescription Processing (Lab)</td>
<td>3 cr</td>
</tr>
<tr>
<td>210 Non-Prescription Medication</td>
<td>3 cr</td>
</tr>
<tr>
<td>209 Pharmaceutical Care</td>
<td></td>
</tr>
<tr>
<td>Electives 2</td>
<td>4 cr</td>
</tr>
<tr>
<td><strong>Fourth Professional Year</strong></td>
<td><strong>18 cr</strong></td>
</tr>
</tbody>
</table>

**Students must have completed the BS in Pharmacy Studies and the first year of the Pharm.D. program**

36 credits

**Rotating Professional Experiences (1 credit = 40 hours)**

**Required (one month each) 16 credits**

- 262 Prof. Experience in Community Pharmacy 4 cr
- 263 Prof. Experience in Hospital Pharmacy 4 cr
- 264 Prof. Exp. in Ambulatory Care Pharmacy 4 cr
- 265 Prof. Experience in General Medicine 4 cr

(may substitute Pediatrics or Geriatrics for Ambulatory Care and General Medicine)

**Electives, Group 1, minimum of 3 (one month each) 12 credits**

- 266 Professional Experience in Cardiology 4 cr
- 267 Professional Experience in Infectious Disease 4 cr
- 268 Professional Experience in Oncology 4 cr
- 269 Professional Experience in Psychiatry 4 cr
- 270 Professional Experience in Pediatrics 4 cr
- 271 Professional Experience in Geriatrics 4 cr

**Electives, Group 2, minimum of 2 (8 credits)**

- 272 Prof. Exp. in Community Practice II 2 4 cr
- 273 Prof. Experience in Critical Care 2 4 cr
- 274 Prof. Experience in Dermatology 2 4 cr
- 275 Prof. Experience in Drug Control 2 4 cr
- 276 Prof. Exp. in Emergency Medicine 2 4 cr
- 277 Prof. Experience in Home Health Care 2 4 cr
- 278 Prof. Exp. in Hospital Pharmacy II 2 4 cr
279 Professional Experience in Industry 2  
280 Prof. Experience in Managed Care 2  
281 Prof. Experience in Nuclear Pharmacy 2  
282 Professional Experience in Nutrition 2  
283 Prof. Exp. in Obstetrics/Gynecology 2  
284 Prof. Exp. in a Skilled Care Nurs. Facility 2  
285 Professional Experience Surgery 2  
PHAR 298 Special Topics in Pharmacy 2  
PHAR 299 Research Experience (GPA 2.8) 2  

Total credits for Doctor of Pharmacy 196

**Exemptions and Substitution.** Students who desire to be excused from any of these requirements or to substitute other courses for those prescribed, should consult the associate dean of the school. Such exemptions or substitution must be approved by the Associate Dean of the School of Pharmacy.