

# Post-Master's Certificate: Validation Sciences

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SCHOOL OF PHARMACY

## About the Certificate

The post-master's certificate in Validation Sciences provides students with a strong foundation in validation science principles, whether the student is an experienced professional or someone seeking entry into the career field. Validation is a critical and all-encompassing tool in the pharmaceutical, medical device, biotechnology and related regulated industries. At the heart of quality assurance practices, validation includes every test and scientific methodology used to demonstrate that facilities, utilities, equipment, processes, computers and products meet agreed-upon standards. Validation relies on the measured precision of scientific methods.

Coursework explores validation sciences in a global environment, combining key regulatory, scientific and analytical concepts. Through completion of the certificate, students understand and can apply:

- the benefits, principles and concepts associated with validation science; and
- the domestic and international regulations that govern the discipline.

**Time Limit for Certificate Completion:** 4 years

**Campus Location:** Health Sciences and Online

**Full-Time/Part-Time Status:** The post-master's certificate may be completed on a part-time basis. NOTE: International students may not be eligible to apply for a student visa based on admission to the certificate program. Please contact the School of Pharmacy's program coordinator for more information.

**Non-Matriculated Student Policy:** Non-matriculated students may take up to 9 credits of coursework before applying to the certificate program.

## Admission Requirements and Deadlines

### Application Deadline:

Fall and Spring admissions are on a rolling basis. Interested students should contact the School of Pharmacy for permission to enroll in coursework.

APPLY HERE to the post-master's certificate program.

**Coursework Required for Admission Consideration:** Students pursuing the certificate in Validation Sciences are expected to have knowledge of current Good Manufacturing Practice regulations. Students without such knowledge should consider taking QARA 5477 Good Manufacturing Practices (3 s.h.) before starting the program.

**Master's Degree in Discipline/Related Discipline:** Applicants must hold a master's degree in a Pharmacy-related field.

**Bachelor's Degree in Discipline/Related Discipline:** Applicants must hold a bachelor's degree from an accredited institution. While no specific major is required, most applicants should have a background in biological sciences, engineering, healthcare, natural sciences or related discipline.

## Certificate Requirements

Number of Credits Required to Complete the Certificate: 15

Required Courses:

Code	Title	Credit Hours
<b>Core Courses</b>		
QARA 5468	Validation of Facilities, Utilities and Equipment (FUE)	3
QARA 5474	Process Validation <sup>1</sup>	3
<b>Electives</b>		<b>9</b>
Select three from the following:		
QARA 5451	Statistical Quality Control	
QARA 5478	High Purity Water Systems	
QARA 5492	Production of Sterile Parenterals	
QARA 5493	Sterilization Processes	
QARA 5498	Computerized System Validation	
QARA 5503	Design Controls for Medical Devices and Combination Products	

QARA 5516	Cleaning Validation
QARA 5627	Statistical Design of Experiments (DOE)
QARA 5629	Process Monitoring
QARA 5650	Special Topics in Regulatory Affairs and Quality Assurance <sup>2</sup>

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**Total Credit Hours**
**15**

<sup>1</sup> Students are expected to take QARA 5474 as their first course. However, students with educational or professional experience in validation science may begin the certificate program with an elective, although all required courses must be completed to earn the certificate.

<sup>2</sup> QARA 5650 should focus on current development and regulatory practices in validation science.

**GPA Required to be Awarded the Certificate:** 3.0 minimum

## Contacts

### Certificate Program Web Address:

<https://pharmacy.temple.edu/academics/regulatory-affairs-quality-assurance-ms-programs-non-thesis-certificates/about-programs/certificate-programs-raqa/post-masters-certificates-raqa/validation-science-certificate-post-masters-raqa>

### Department Information:

Regulatory Affairs and Quality Assurance Graduate Program  
 425 Commerce Drive, Suite 175  
 Fort Washington, PA 19034-2728  
 qara@temple.edu  
 267-468-8560

### Mailing Address for Application Materials:

Temple University  
 Regulatory Affairs and Quality Assurance Graduate Program  
 425 Commerce Drive, Suite 175  
 Fort Washington, PA 19034-2728

### Department Contacts:

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