The Field of ADMET Processes

The ADMET processes – Absorption, Distribution, Metabolism, Excretion, and Toxicology – form one of the foundations of all modern drug discovery and development. It has been reported that 50% of drug failures in development and clinical trials are due to poor ADMET properties. In order to minimize these costly failures, the paradigm of drug discovery and development has therefore been shifting to examining and optimizing these properties as early as possible. This requires virtually every organization that embarks on the challenge of creating pharmaceutical solutions to health or agricultural concerns to become expert at analyzing these processes. Accordingly, successful professionals in the field must be aware of and proficient in the examination of each of these processes, and employers must ensure the continued development of a workforce capable of understanding and facilitating systems and environments where these processes can be researched and evaluated with integrity and efficiency.

Program Overview

This specialized certificate gives you a complete understanding of the elements of ADMET. You will increase your ability to provide successful solutions to the R&D challenge, and become more valuable to your organization.

Program Audience

The primary audience for the program is practicing professionals with a science degree, currently working in the pharmaceutical field. Professionals with legal, business or clinical backgrounds, or science professionals considering entering the pharmaceutical field, may also be attracted to the program.

Program Details

Prerequisites

There are no prerequisites required to enroll in the certificate program, however most students who take the certificate have advanced degrees in a science degree.

Length

Most students complete the program in one year by taking on course per quarter for four consecutive quarters. You have up to five years to complete all requirements for the certificate, however, we do not recommend you take that long as this field could change significantly in that time span. The quickest you can finish the program is in two quarters.
Cost
Currently, each class is either $725 or $625. The total cost of the program is $2,800. There is also an additional certificate fee of $95. The cost of attendance does not include textbooks, parking, transportation, or personal expenses. All estimated costs are subject to change; current fees and textbooks are listed on our website.

Requirements
There are 4 required courses that are taught completely online. It is highly recommended that students complete both the Drug Metabolism and Pharmacokinetics courses before taking the Predicting and Selecting Promising Drug compounds.

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Electives
There are no elective courses in this program.

Frequently Asked Questions

About the Certificate

How do I apply to the certificate Program?
STEP 1: If you have a My Extension account, skip to Step 2. If you do not have a My Extension account, go to myextension.ucsd.edu, click “Create an account” on the right side of the page, and follow the instructions to create an account. Once you have a My Extension account, continue to Step 2.

STEP 2: Click on the “Apply Now” button on the certificate page. Complete the required fields on the application. Then click Save Your Work button. Once you have saved the application, the “Submit” button will appear. Click the “Submit” button to submit your application for review and consideration. Once submitted, your application cannot be changed. You can track the progress of your application at My Extension.

Is there an application fee for the certificate program?
Current application or certificate fees, if any, are listed under the “Apply Now” button on the certificate page on our website.
Can I register for the certificate program at any time?
Yes, you may enroll in the program at any time. However, it is recommended that you enroll as soon as possible. The program curriculum may be updated at any time; if certificate requirements change, you must adhere to the curriculum at the time of your enrollment into the certificate. Enrolling in the certificate also gives you access to quarterly, personalized enrollment reminders from the program manager.

Can this certificate program be completed entirely online?
Yes! This program is designed for you to take it online in the convenience of your own home or office. Some courses may also have in-class options, but all program requirements can be completed online. For online courses, all assignments, tests, and quizzes can be completed online and submitted through Canvas, our online learning platform.

How long do I have to complete the certificate?
You officially have five years from when you begin taking courses in the program to complete all requirements for the certificate.

If I already have the skills taught in one of the courses, can I skip that course?
If you have taken a course from an accredited university covering the learning objectives of a program course, you may be able to transfer your previous coursework to UC San Diego Division of Extended Studies. If you have not taken a course elsewhere, but already have the skills covered in a course, you may be able to substitute an alternate Division of Extended Studies course in its place. Please contact the program representative at unexbio@ucsd.edu for more information.

Is this certificate program open to non-California residents?
Yes, the program is open to non-California residents, including non-US residents. The tuition is the same for all students. If you have questions about how enrolling in courses may or may not affect your visa status, please contact our International Department at ipinfo@ucsd.edu or (858) 534-6784.

If I work full-time, will I still be able to complete this program?
Yes. Our programs are designed to be working-student friendly and most of our students are working professionals. The courses vary between two and three units, which amount to approximately 18-20 hours of class time for a two unit course and 27-30 hours of class time for a three unit course.

Is the program accredited?
UC San Diego is accredited by the Western Association of Schools and Colleges (WASC). UC San Diego Division of Extended Studies — like all other UC San Diego schools, colleges, and departments — is accredited by WASC through the University. All courses and certificate programs offered by UC San Diego Division of Extended Studies have been developed and are administered in accordance with Division of Extended Studies policy and the regulations of the Academic Senate of the University of California.

I noticed that all the courses in the ADMET Process certificate overlap with the Drug Discovery and Development certificate. Can those courses count towards the Drug Discovery and Development certificate also?
Yes, a course can count towards the certificate requirements in more than one certificate. Please note though that all courses must be completed within five years in order for it to counts towards the certificate. This basically means you have five years to complete both certificate from the time you started the first course that will count towards both certificates.
How do I get my certificate once I have completed the requirements?
When you have paid your certificate fee and successfully completed all program requirements, you will need to request an audit by Student Services. To request an audit:

- In your My Extension account, click on “My Courses.”
- On the right side of the page under “My Certificates,” click on the name of the certificate.
- On the right side of the page under “Tools,” click on “Request Certificate Audit.”
- Complete and submit the form that appears.

Once you have formally submitted your audit request, your certificate will be mailed to the address we have on file for you within ten business days.

Do you provide job or internship placement?
No, we do not currently offer job placement assistance, internships, or career services assistance

Is financial aid available?
- UC San Diego Division of Extended Studies offers continuing education loans through UC Approved Lenders. Each institution offers low competitive interest rates and flexible payment options. You are also encouraged to contact your personal financial institution about possible lending solutions. Direct links to UC Approved Lenders can be found can be found on our website’s Financial Resources page.
- The Employment Development Department (EDD) provides a comprehensive range of employment and training services in partnership with state and local agencies/organizations. More information is available on their website at edd.ca.gov.
- Career Centers Located throughout San Diego County offer their communities comprehensive employment and training services benefiting both business and job seekers. More information is available on their website at workforce.org.
- Please click here for information about Veteran’s Benefits.
- Free Application for Federal Student Aid (FAFSA) funds are limited to degree programs only, and cannot be used for courses or certificate fees at UC San Diego Division of Extended Studies.

About the Courses

When does course enrollment open for each quarter?
Our classes post to our website and become open for enrollment approximately two months prior to the new quarter starting. If you would like to get an email reminder you can sign up for our newsletter(s) in My Extension, under the “Preferences” tab.

When should I enroll in a course?
We recommend enrolling as soon as possible, as occasionally classes will reach capacity.

Once I have enrolled in a course, when will I get online access to it?
If you have enrolled at least three days before the course begins, you will have access starting on the first day of class. You should receive an email from Student Services with instructions for how to login to the course. If you have enrolled on or after the start date of the course, you will have access to the course within one business day.
ADMET Process
Specialized Certificate

When does enrollment for a course close?
Enrollment in a course may be closed for one or more of the following reasons:

- The course is at capacity. If the course is at capacity you will only be able to join the waitlist. If space becomes available in the course, students on the waitlist are contacted in the order they joined the waitlist.
- The course has progressed to a point where students will no longer be able to make-up missed work and be successful in the course.
- The course is cancelled due to low enrollments.

For all three of these reasons we recommend students enroll early in their courses of interest.

When is the refund deadline for courses?
The refund deadline for courses in this program is typically one week after the start of the course. This allows you to enroll in a course and participate in the course for approximately one week to determine if the course is a good fit. Then, if needed, either you may either transfer your enrollment to a different course or submit a drop request. The exact refund deadline for each section is listed in the section notes on the course page in our website, and you can also find it in My Extension by clicking on “My Courses” and then the name of the course.

What are the grading options for courses?
You can take courses for one of three options: Letter Grade, Pass/No Pass, or Not for Credit. If you are taking a course towards a certificate you must complete your courses for credit (i.e. Pass/No Pass or Letter Grade) and receive a C-/Pass or higher grade. Grades below a C-, No Pass, and Not for Credit will not count towards certificate requirements.

What kind of credit do I earn?
The courses in this program are post-baccalaureate, professional-level, credit bearing courses. Credit earned in these courses may lead to the award of a formal certificate by UC San Diego Division of Extended Studies or may be applied toward an academic degree or professional credential, subject to the approval of the receiving institution. If you wish to transfer credit, it is your responsibility to confer with the receiving institution before enrolling, as each individual academic institution decides whether or not to accept Division of Extended Studies’ credits.

Are courses transferrable?
UC San Diego Division of Extended Studies is not a degree granting institution, however many UC San Diego Division of Extended Studies courses can be transferred to other colleges or universities. The transferability of credit is determined solely by the receiving institution. You should discuss how your individual courses will transfer with the Office of the Registrar at the receiving institution prior to enrolling.

Can I take a course without registering for the certificate?
Yes, you may take any course in this program without registering for the certificate, provided you have fulfilled any and all prerequisites for the course.

How long is each course?
Two unit courses run for approximately 6-7 weeks; three unit courses run for approximately 9-10 weeks. For exact course dates of upcoming sections, visit the webpage of the course you are interested in taking on our website.
When is each course offered?
Please visit the course page on our website to see when courses are typically offered. You can also see a full program schedule by clicking on the "View Schedule" button under the “Courses” section on the certificate page or under the Program Requirements section of this document.

How many hours can I expect to spend studying outside of class time?
Each student has their own learning style so this can vary greatly. As a rule of thumb, expect to spend an average of two hours studying for every hour you spend in-class. For online courses, students should plan to spend approximately 8-10 hours per week viewing lectures and completing coursework.

How are online classes formatted?
The online courses are asynchronous. They have a start and end date but all the lessons are uploaded on Canvas, our online learning management system, so that you can learn at your own pace. However, please be aware that you may have weekly assignments, quizzes and/or tests that are due on specific dates. Please click here to view a sample course tour to see if this format suits your learning style.

What are the instructors’ credentials?
The program courses are taught by seasoned professionals and overseen by an advisory board of leaders in the field. Generally, the instructors are all working professionals in the industry with at least a master's level education in their field, with many having a Ph.D. You can find information about a course instructor, including a biography and credentials, on the course page.

How do I communicate with a course instructor if I have a question during the course?
Each instructor has his/her own preferred method of communication and response policy, which will be detailed on the course syllabus. However, most instructors utilize email or the discussion board and will respond within 24-48 hours.

Will I get any hands-on experience in the program?
Most courses combine theory with hands-on exercises. For more information about practical experience in any course, visit the course page on our website.

What are the required textbooks for a course?
Instructors will post the current text requirements and recommendations on the course page on our website. Please note the textbooks requirements are subject to change every quarter and different instructors may require different books, even if they are teaching the same course in the same quarter, so be sure to check the textbook requirements for the section in which you are enrolling.

Will I be able to order the required textbooks before the class begins?
Yes, you can order the book(s) any time after enrolling in the course. You may order books through the campus bookstore or online retailers, such as Amazon.com.

After I enroll in a course, how can I retrieve a receipt or enrollment verification for my records?
Login to your My Extension account and select "Documents" as the top of the page.

How will I receive my final course grade?
Once the course is completed, the instructor has 10 business days to submit your grades. Once grades have been posted, you can view and print them from your My Extension account.
What if I am having trouble with Canvas or My Extension?
Please contact Student Services at (858) 534-3400 or unex-reg@ucsd.edu if you experience any issues logging in to any of our systems.

For More Information
For program specific questions, please visit the certificate page on our website or contact a program representative at unexbio@ucsd.edu or 858-534-9353. For administrative questions, please contact our Student Services Department at unex-reg@ucsd.edu or (858) 543-3400.