# Certificate Requirements (18 credit hours)

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The program requires a minimum of 18 credit hours. Students admitted to the program are placed into 1 of 2 tracks based on their level of clinical research experience. The track and course options selected are subject to approval by the program coordinator.

### Track 1:

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Students with less than 2 years of experience (who do not hold an undergraduate degree in clinical research) are required to take:

- CLR 505 - Getting Started in Clinical Research Credits: 3
- CLR 506 - Clinical Research Operations and Regulations Credits: 3
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  After successful completion of CLR 505 and CLR 506, students are required to take the 3 core courses and 1 of the additional courses listed below.

### Track 2:

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Students with approximately 2 or more years of experience or an undergraduate degree in clinical research are required to take the 3 core courses and 3 of the additional courses listed below.

### Core Courses:

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- CLR 501 - Clinical Research Monitoring and Ethics Credits: 3
- CLR 520 - Regulatory Affairs & Quality Management Credits: 3
- CLR 550 - Clinical Research Trial Design & Data Management Credits: 3

### Additional Courses:

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- CLR 510 - Advanced Scientific Writing & Interpreting Medical Literature Credits: 3
- CLR 512 - Pharmacotherapeutics for Clinical Research and Product Development Credits: 3

- CLR 515 - Epidemiology and Safety Credits: 3
- CLR 525 - Current Issues in Global Regulatory Development and Management Credits: 3
- CLR 530 - Project Management in Clinical Research Credits: 3
- CLR 540 - Post-marketing Studies Credits: 3
- CLR 545 - Biopharmaceutical Technology Transfer and Intellectual Property Management Credits: 3
- CLR 555 - Innovative Drug Product Development Credits: 3
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Successful completion of the certificate program requires an overall cumulative GPA of 3.0 for all courses. Completed certificate courses may be applied to the Master of Science in Clinical Research and Product Development, in accordance with the GPA guidelines (3.0 or greater) and other admission requirements of the Graduate School, and contingent upon acceptance into the master's degree program.