

# CELL & DEVELOPMENTAL BIOLOGY, PHD

## *for the Doctor of Philosophy in Cell & Developmental Biology*

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**department website:** <https://mcb.illinois.edu/departments/cdb> (<https://mcb.illinois.edu/departments/cdb/>)

**school website:** <https://mcb.illinois.edu>

**college website:** <https://las.illinois.edu> (<https://las.illinois.edu/>)

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## Graduate Degree Program in Cell & Developmental Biology

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The graduate curriculum in Cell and Developmental Biology is designed to educate students for careers in research and teaching in the biological sciences. Departmental faculty are concerned with the structural and functional relationships of cells and organisms, with research emphases upon eukaryotic cell and molecular biology, developmental biology, and molecular genetics.

## Admission

Applicants interested in the Cell & Developmental Biology, PhD program will need to apply directly to the School of Molecular and Cellular Biology (MCB) PhD program, <https://mcb.illinois.edu/graduate/gradprospect/>. The MCB PhD program is an umbrella program that requires admitted students to spend their first semester rotating among three different labs to explore their interests before joining one of our four departments.

MCB Admission requirements include a bachelor's degree in biological or physical sciences, a grade point average of a 3.0 or higher (A = 4.0), prior research experience and three letters of recommendation from individuals who can attest to the applicant's academic and research background. The Graduate Record Examination (GRE) is **not** required. Applicants interested in pursuing a PhD in Cell & Developmental Biology should have a strong background in biology, chemistry, and mathematics. In addition to these requirements, non-native English-speaking applicants must attain a minimum Test of English as a Foreign Language (TOEFL) overall score of 96, with at least a score of 22 on the speaking section. MCB does **not** accept the International English Language Testing System (IELTS) to show English proficiency. Graduate College requirements also apply.

## Graduate Teaching Experience

Experience in teaching is considered a vital part of the graduate program and is required as part of the academic work of all PhD candidates in this program.

## Facilities and Resources

Facilities include modern, well-equipped laboratories for cellular, developmental, genetic, molecular, and structural studies. The University offers exceptional and broadly based research support services. The Roy J. Carver Biotechnology Center provides state-of-the-art facilities to support genomics, proteomics, metabolomics, bioinformatics, flow cytometry, and translational medical research. The University offers outstanding computer services and is home to the National Center for Supercomputing Applications. The Beckman Institute for Advanced Science and Technology and the Carl R. Woese Institute for Genomic Biology foster interdisciplinary research across the campus. Opportunities for interaction in the cellular and molecular sciences are also available in many other units within the Schools of Molecular and Cellular Biology, Integrative Biology, Chemical Sciences, the Cancer Center, College of Engineering, and the Carle Illinois College of Medicine.

## Financial Aid

Financial aid is available to qualified applicants in the form of university fellowships (awarded on a competitive basis), teaching assistantships (awarded by the department), research assistantships, and tuition and fee waivers.

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For additional details and requirements refer to the department's Graduate Student Handbook (<http://mcb.illinois.edu/departments/cdb/gradcurrent.html>) and the Graduate College Handbook (<http://www.grad.illinois.edu/gradhandbook/>).

## Cell and Developmental Biology, PhD

Code	Title	Hours
MCB 501	Advanced Biochemistry	4
MCB 502	Advanced Molecular and Cell Biology	4
MCB 529	Special Topics in Cell and Developmental Biology (Section WRI)	2

MCB 580	Res Ethics & Responsibilities	1
MCB 581 & MCB 582 & MCB 583	Laboratory Rotation I and Laboratory Rotation II and Laboratory Rotation III	9
CDB 595	Graduate Sem Cell Devel Biol (Sections A and C) <small>CDB 595 Section A and CDB 595 Section C must each be taken once for 1 credit hour each.</small>	2
Approved elective coursework hours to bring total course work hours to 32		10
CDB 599	Thesis Research (min/max applied toward degree)	64
<b>Total Hours</b>		<b>96</b>

### Other Requirements

Requirement	Description
Other requirements may overlap	
The department requires each graduate student to teach the equivalent of 50% for one semester.	
Masters Degree Required for Admission to PhD?	No
Preliminary Exam Required	Yes
Dissertation Deposit Required	Yes
Minimum GPA:	3.0