

**Queens College**  
**Department of Secondary Education and Youth Services**  
**Undergraduate Science Education Initial Certificate**

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**Undergraduate Science Education Initial Certificate Concentration Form \***

To qualify for the SEYS science education initial certificate program, an undergraduate student must have completed at least 15-20 credits in a traditional science major (biology, chemistry, geology, physics) with a minimum average of 2.75. Qualified students must have a major form signed by the appropriate science department advisor and a similar form signed by an advisor in SEYS (PH 150). The forms should be submitted by the upper sophomore/ lower junior year. Candidates must earn a minimum letter grade of B in *each* SEYS course to complete the initial certificate program.

Course Number	Title	Credits	Fieldwork
SEYS 201	Historical, Social and Philosophical Foundations in Education	3	25 hours
SEYS 221	Development and Learning in Education	3	25 hours
(Pre-requisite 201)	Language, Literacy and Culture in Education	3	25 hours
SEYS 350 (Pre-requisite 221, 340)	Cognition, Technology and Instruction for Diverse Learners (Spring or Fall)	3	25 hours in middle school
(Pre or Co-requisite 350)	Teaching Science in Middle & High Schools. (Fall ONLY)	3	25 hours
SEYS 372.2 (Pre-requisite 350)	High School or Middle School Initial ClinExp (Fall ONLY)	2	100 hours
SEYS 372.4 (Pre-requisite 362, Co-requisite 382)	Student Teaching in Science for High School and/or Middle School (Spring ONLY)	4	
SEYS 382 (Co-requisite 372.4)	Curriculum and Assessment in Science (Spring ONLY)	3	
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\*In 2010, New York State mandated that all teacher certification programs must include a course on teaching children with disabilities. A 3-credit course will be added to the undergraduate IC program and beginning fall 2011, students accepted to the IC program will fall under the new NYSED certification guidelines.