

PROGRAM (a2).

(Biology: NYS program code: 25033D; HEGIS #: 0829.00; ISIS code: PB2)

(Chemistry: NYS program code: 25033E; HEGIS #: 0829.00; ISIS code: PK2)

(Physics: NYS program code: 25033F; HEGIS #: 0829.00; ISIS code: PP2)

(Earth Science: NYS program code: 25033G; HEGIS #: 0829.00; ISIS code: PZ2)

M.A.T. in Professional Study in Adolescence Education

(Biology/ Chemistry/ Physics/ or Earth Science)

(for teachers with initial certification in that area)

Leads to the following NYS certification(s):

- **Adolescence Education (Grades 7-12) as a specialist in biology/ chemistry/ physics/ or earth science (Professional)**

AND/OR:

- **Middle Childhood Education (Grades 5-9) as a specialist in biology/ chemistry/ physics/ or earth science (Professional)**

(30 credits of coursework)

Program of study

Whenever there is an option, please circle your choice. Also indicate the academic year and semester in which you plan to take each course:

Course #	Course Title	Credits	Semester(s) Offered	To be taken in (fill in)
	<i>Masters' Core:</i>			
ED 406	Masters' Research Methods	3	Su, F, Sp	
EDU442	Race, Class, Gender & Disability in American Ed.	3	Su, Sp	
OR:				
ED 404	Teaching, Curriculum and Change		Su, F, Sp	
	<i>Courses Linking Content & Pedagogy:</i>			
EDU448	Theory & Practice in Teaching & Learning Science	3	F	
EDU434	Implementing Innovation in Science Education	3	Sp	
	2 other electives among courses linking content and pedagogy – choose among: <ul style="list-style-type: none"> • Integrating Science & Technology (EDU486) • Integrating Science & Literacy (EDU487) • Theory & Practice in Teaching & Learning Science in Elementary (EDU429) • Teaching experimental Biology (BIO 3xx) (<i>for biology spec.</i>) • Issues in Group Leadership (CHM 352) (<i>for chemistry spec.</i>) • Special Topics in the Teaching of Physics (PHY350) (<i>for physics spec.</i>) • Supervised College Teaching (EES 490) (<i>for earth science spec.</i>) 	6	Su (even) Su (odd) Sp	
	<i>Science Courses:</i>			
	LIST the science courses you will be taking: <ol style="list-style-type: none"> 1. 2. 3. 4. (if needed) 	12 total		
	<i>Master's Essay</i>	0		

NOTE: Most science courses are offered during the school day during the Fall and Spring semesters; students should consider their availability during the day before committing to this program on a part-time basis. Graduate students taking 200-level and 300-level courses usually receive 3 graduate credits (instead of 4 undergraduate credits).

Sample program A -- full-time student starting in Fall

(Eliminate or substitute with an elective any course you already took in a previous program)

Fall 1:

- Masters' Research Methods (*3 credits*)
- Theory & Practice in Teaching and Learning Science (*3 credits*)
- Biology/ Chemistry/ Physics/ or Earth Science course 1 (*3 credits*)
- Biology/ Chemistry/ Physics/ or Earth Science course 2 (*3 credits*)

Spring 1:

- Implementing Innovation in Science Education (*3 credits*)
- Content-pedagogy course from Biology department (*3 credits*)
- Biology/ Chemistry/ Physics/ or Earth Science course 3 (*3 credits*)
- Biology/ Chemistry/ Physics/ or Earth Science course 4 (*3 credits*)
- Master's Essay (*0 credits*)

Summer 2:

- Race, Class, Gender and Disability in American Education OR: Teaching, Curriculum & Change (*3 credits*)
- Integrating Science & Technology (*Summer/even*) OR: Integrating Science & Literacy (*Summer/odd*) (*3 credits*)

Sample program B -- part-time student starting in Summer and taking 2 courses per semester

(Eliminate or substitute with an elective any course you already took in a previous program)

Summer 1:

- Race, Class, Gender and Disability in American Education OR: Teaching, Curriculum and Change (3 credits)
- Integrating Science & Technology (*Summer/even*) OR: Integrating Science & Literacy (*Summer/odd*) (3 credits)

Fall 1:

- Theory & Practice in Teaching and Learning Science (3 credits)
- Biology/ Chemistry/ Physics/ or Earth Science course 1 (3 credits)

Spring 1:

- Implementing Innovation in Science Education (3 credits)
- Biology/ Chemistry/ Physics/ or Earth Science course 2 (3 credits)

Summer 2:

- Masters' Research Methods (3 credits)
- Integrating Science & Literacy (*Summer/odd*) OR: Integrating Science & Technology (*Summer/even*) (3 credits)

Fall 2:

- Biology/ Chemistry/ Physics/ or Earth Science course 3 (3 credits)

Spring 2:

- Biology/ Chemistry/ Physics/ or Earth Science course 4 (3 credits)
- Master's Essay (0 credits)

Sample program C -- part-time student starting in Summer and taking 1 course per semester

(Eliminate or substitute with an elective any course you already took in a previous program)

Summer 1:

- Masters' Research Methods (*3 credits*)

Fall 1:

- Theory & Practice in Teaching and Learning Science (*3 credits*)

Spring 1:

- Implementing Innovation in Science Education (*3 credits*)

Summer 2:

- Integrating Science and Literacy (*Summer/odd*) OR: Integrating Science and Technology (*Summer/even*) (*3 credits*)

Fall 2:

- Biology/ Chemistry/ Physics/ or Earth Science course 1 (*3 credits*)

Spring 2:

- Biology/ Chemistry/ Physics/ or Earth Science course 2 (*3 credits*)

Summer 3:

- Integrating Science & Technology (*Summer/even*) OR: Integrating Science & Literacy (*Summer/odd*) (*3 credits*)

Fall 3:

- Biology/ Chemistry/ Physics/ or Earth Science course 3 (*3 credits*)

Spring 3:

- Biology/ Chemistry/ Physics/ or Earth Science course 4 (*3 credits*)
- Master's Essay (*0 credits*)

Summer 4:

- Race, Class, Gender and Disability in American Education OR: Teaching, Curriculum and Change (*3 credits*)