

**MAT POST-BACCALAUREATE CHECKLIST
SECONDARY
CHEMISTRY CERTIFICATION (Grades 9-12)**



Education department

**POST BACCALAUREATE STUDENTS ARE ONLY ELIGIBLE TO TAKE COURSES
REQUIRED FOR CERTIFICATION. NON-CERTIFICATION COURSES ARE NOT COVERED BY FINANCIAL AID.**

CONTENT AREA COURSEWORK FOR CHEMISTRY

35 hrs minimum

Grade	Course #	Course Title	Cr Hrs
History/Philosophy of Science and Technology (3 hrs min)			
	Choose one:	HIST 303 – Science, Technology, and Humanity: A History or BIOL/CHEM/ENVS 105 – Essentials of Science	3
Twenty (20) hours in Chemistry coursework which must include:			
	CHEM 322	Inorganic Chemistry (<i>Inorganic Chemistry</i>)	3
	CHEM 335	Quantitative Analysis (<i>Analytical Chemistry</i>)	3
	CHEM 310	Organic Chemistry I (<i>Organic Chemistry</i>)	3
	CHEM 401	Introduction to Physical Chemistry/Chemical Physics (<i>Physical Chemistry</i>)	3
	CHEM 420	Biochemistry (<i>Biochemistry</i>)	3
	Electives:	Chemistry Electives to complete the 20-hr minimum (Contact the Education Department for options)	5
Twelve (12) hours of additional Science coursework which must include:			
	BIOL 110	Principles of Biology I (<i>Biology</i>)	3
	PHYS 111	College Physics (<i>Physics</i>)	3
	GEOL 110	Introduction to Physical Geology (<i>Earth Science</i>)	3
	ENVS 115	Introduction to Environmental Science (<i>Environmental Science</i>)	3

Professional Education Coursework

Post Baccalaureates may choose to take the Graduate equivalency to the undergraduate courses required for certification; graduate equivalencies will apply both towards certification and masters' degree. Ex. EDUC 200 = EDUC 542; 542 will meet certification requirement and apply towards MAT degree. Equivalent courses are in the "Grad Equivalent" column. Note: not all certification courses have graduate equivalencies.

Grade	Course #	Course Title	Cr Hrs	Grad Equivalent	Field Experience (observation hrs) included
	SOCI 270	Diversity and Society	3	EDUC 555	none
	EDUC 100	Introduction to Education*	3	n/a	15 hrs
	EDUC 200	Law, Ethics, and Education (<i>field experience added to 542</i>)	3	EDUC 542	15 hrs in 542
	EDUC 220	Methods of Teaching English Learners (<i>NOTE: if EDUC 542 taken prior to Fall 2020, EDUC 220/520 not required</i>)	3	EDUC 520	none
	EDUC 230	Educational Psychology	3	EDUC 560	none
	EDUC 300	Techniques of Teaching*	3	EDUC 505	15 hrs

	EDUC 390	Education & Psychology of the Exceptional Child	3	EDUC 525	none
	Choose option	EDUC 396 – Child and Adolescent Development; or EDUC 391 – Child Psychology and EDUC 392 – Adolescent Psychology	3	EDUC 550	none
Admission to the Teacher Certification Program (See Teacher Certification Program checklist)					
	EDUC 311	Classroom Management Techniques	3	EDUC 563	15 hrs
	EDUC 322	Educational Measurement and Assessment	3	EDUC 580	none
	EDUC 338	Content Reading and Writing	3	EDUC 516	15 hrs
	EDUC 365	Teaching Middle School and Secondary Science	3	n/a	15 hrs
	EDUC 375	Advanced Content Methods	3	n/a	15 hrs
	EDUC 376	Adolescent Literacy	3	EDUC 578	none
	EDUC 400	Senior Seminar	3	EDUC 600	none
Approval for Student Teaching (See Student Teaching Checklist)					
	EDUC 425	Undergraduate Student Teaching	12/9	EDUC 698	16 weeks
		Total Credit Hours	51-57		
Approval for DESE certification recommendation (See DESE Certification checklist)					

***If EDUC 300 is taken, EDUC 100 is required; if EDUC 505 is taken, EDUC 100 is not required.**

Retention Criteria:

- Complete at least 6 hours of professional education each year
- Complete Field Experiences and receive favorable evaluations from cooperating teachers and college supervisors
- Maintain a cumulative GPA of 3.0 or above in professional education courses and content area courses

Other requirements that must be completed prior to certification:

- Successful completion/passing of appropriate Content Area Assessment – MoCA
- Successful completion of program certification performance assessment – MEES

Other Requirements:

Post Baccalaureate certification students completing the 2022-2023 FAFSA to receive financial aid for certification must complete the following questions on the FAFSA accordingly:

Question #29 – What will your grade level be? – **Student must answer “5th year/other undergraduate.”**

Question #30 – What degree or certificate? – **Student must answer “Teaching Credential (non-degree Program).”**

Question #47 – Are you a masters or doctorate student? - **Student must answer “No-Not working on a masters/doctorate program.”**

Master of Arts in Teaching (MAT) degree

If you are planning to pursue the MAT degree after certification you will need to relay that information to your Education advisor since that may determine how many certification courses you should take at the graduate level. (In some cases, taking all of the graduate options would result in your taking more than the 36 hours needed for the degree.) The MAT degree requires a total of 36 hours of EDUC coursework at the graduate level which includes 15 hours of core courses (EDUC 500, 504, 508, 555, and 560).