

Matrix for Master's plus Biology Education Program

II. Performances	EDU 8671 History of American Education	EDU 8676 Technology in Teaching	EDU 8678 Multiculturalism, Diversity, & Inclusion	EDU 8614 Curriculum & Assessment	EDU 8616 Methods of Teaching I	EDU 8618 Educational Psychology	EDU 8673 Philosophy of Education	EDU 8540 Methods of Teaching	EDU 8628 Student Teaching and Seminar	Three one-credit workshops or one grad elective	Assessment
<p>II.A. Managing the instructional environment in order to:</p> <ul style="list-style-type: none"> • create a climate that promotes fairness, • establish and maintain mutual respect and rapport with and among students, • establish and communicate challenging learning expectations to each student, • establish and maintain consistent standards of classroom behavior, • make the physical environment safe and conducive to learning 			X	X	X	X	X	X	X	X	Tests, Minilessons, Lesson plans, Designing curriculum miniunits,papers based on observations in field placements, Paper on philosophy of teaching biology, lesson plan activities, Field experience paper, Action research, Exit criteria based on INTASC standards
<p>II.B. Planning of instruction based upon:</p> <ul style="list-style-type: none"> • subject matter, • students and the community, • school district standards, • Pennsylvania Academic Standards, • other standards that promote problem analysis, creativity and decision-making skills 			X	X		X	X	X	X		Curriculum miniunit with lesson plans which include adaptations for special need students, Lesson plan construction, Research paper on at risk students, Minilesson presentations, Paper on philosophy of teaching biology, Action research , Unit plan, Exit criteria based on INTASC standards
<p>II.C. Implementing, adapting and assimilating effective instructional strategies, curriculum resources and technologies</p>			X	X	X		X	X	X		Tests, Designing curriculum mini units,Papers based on observations in field placements, Lesson plan construction, Research paper on at risk students, Presenting mini lessons, Action research,Exit criteria based on INTASC standards

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II.D. Designing, conducting and evaluating laboratory activities, using techniques, equipment and facilities that meet current technological standards including: <ul style="list-style-type: none"> • computer applications to science teaching, • hands-on laboratory experiences and equipment 			X							X	X	Developing computer lessons in biology, Field experience paper, Exit criteria based on INTASC standards
II.E. Selecting, analyzing and modifying materials to meet the instructional needs and levels of diverse learners			X	X	X	X	X	X	X	X		Test, Presentations, curriculum mini unit, Lesson plan construction, Research paper on at risk students, Presenting mini lessons, Paper on philosophy of teaching biology, Lesson plans, Field placement project, Action research, Exit criteria based on INTASC standards
II.F. Monitoring students' understanding of content through a variety of assessment strategies, providing feedback to students to assist learning, and adjusting instruction			X	X	X		X	X	X	X		Curriculum miniunit that includes assessment strategies, "Case Study Contest", classroom case studies, Paper on philosophy of teaching biology, field study project, presentation, lesson plans, Discussion leading, Action research, Unit plan, Exit criteria based on INTASC standards