

# Middle Grades & Secondary Education (MGSE)

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**MGSE 5146. Teaching Science, Technology, Engineering and Math Through Project Based Instruction. 3 Credit Hours.**

Project-Based Instruction (PBI) engages learners in exploring authentic, important, and meaningful questions of real concern to students. Through a dynamic process of investigation and collaboration and using the same processes and technologies that scientists, mathematicians, and engineers use, students work in teams to formulate questions, make predictions, design investigations, collect and analyze data, make products and share ideas. Students learn fundamental science and mathematical concepts and principles that they apply to their daily lives. PBI promotes equitable and diverse participation and engages students in learning. PBI is very well suited to align with inquiry-oriented teaching and learning as recommended in education policy documents such as the National Science Education Standards, Next Generation Science Standards, and the Principles and Standards for School Mathematics. PBI is also consistent with social constructivist learning theory and with learning sciences research about how people learn. The PBI course supports your continued development as a teacher, building on your previous courses. PBI provides opportunities for you to observe and teach in the secondary science or mathematics classroom, continuing your field experiences from the prior science and mathematics methods courses. PBI also seeks to build on the theoretical knowledge base you acquired in Child and Adolescent Development. This course will also provide opportunities for you to generate artifacts for a professional portfolio to meet requirements for certification. This course aims to help close the research-practice gap by developing your capacity to identify and evaluate best teaching practices as presented in research literature.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5196. Reading and Writing in the Middle Grades. 3 Credit Hours.**

The purpose of this course is to prepare pre-service teachers to teach reading and writing in the upper elementary and middle level settings. Students will be introduced to theories and current views of practice in the literacy field. The areas of language, listening, reading and writing are presented throughout this course as interrelated and integrated literacy processes. Emphasis will be on providing pre-service teachers with the competencies to implement strategic instructional practices and engage in ongoing assessment for a diverse middle grades population. We will also identify ways to build classroom communities through literacy practices.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5296. Citizenship, Cultures, and Social Studies Education. 3 Credit Hours.**

This course examines ways to teach about diversity and dialogue in the practice of democracy. Using the social studies content areas and research in social justice, special attention is paid to the areas of multicultural and citizenship education as well as other compelling topics that influence the public or common good in a diverse society such as race relations, gender socialization, language differences, immigration, religious freedom, equality of economic and social opportunities, and global interdependence.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5404. Teaching Math in the Middle Grades. 3 Credit Hours.**

This course will focus on numbers, operations, and algebra, as appropriate for the middle grades. Special attention will be paid to understanding the conceptual difficulties students have in moving from whole numbers to rational numbers, additive thinking to multiplicative thinking, and arithmetic to algebra. Problem-solving, connections, and concrete models are emphasized. The particular content knowledge needed for teaching will be integrated in this course with general and content-specific pedagogies. Issues of planning, instruction, and assessment will be discussed. Field experiences in the form of small group instruction will support these discussions.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5405. Teaching Science in the Middle Grades. 3 Credit Hours.**

This three-credit graduate course will draw on current methods (e.g., scientific inquiry and collaborative activities) to explore effective teaching and learning of science in the middle grades classroom. It is very important that children and adolescents develop scientific habits of mind. As a result, this course will be based on developing these habits of mind while giving students an understanding of the "Big Ideas" in science. This course will examine these big ideas in science as a whole, focusing heavily on scientific inquiry both as a pedagogical approach and a learning goal. Throughout the course, investigating the preconceptions that children and adolescents bring to the science classroom will be emphasized, as well as discovering the pedagogical approaches to uncovering and addressing them. Students will apply, evaluate, and reflect upon science teaching methods through class activities and field experience assignments that address the interdisciplinary nature of science.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5427. Curriculum and Methods of Foreign Language Education. 3 Credit Hours.**

This course is focused on methods of teaching foreign languages to young learners. The course is also focused on the American Council of Foreign Language Teachers (ACTFL) proficiency guidelines and content standards. There will be a theoretical component to the course, investigating issues related to child and adolescent language learning, and how it differs from post-adolescent language learning. There will also be a very practical component to the course, in which students will have numerous opportunities to apply their learning by creating foreign language lesson units, lesson plans, and assessments for in K-8 grade language learners. There will also be a very strong assessment component to the course, focusing on how teachers can integrate authentic, formative assessments to help guide instructional planning. The overall goals of the course are to deepen students' understanding of how foreign language instruction affects child and adolescent language learning.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**College Restrictions:** Must be enrolled in one of the following Colleges: Education & Human Development.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5428. Innovations in Foreign Language Education. 3 Credit Hours.**

This course seeks to allow foreign language teachers in training to examine methods and techniques of teaching language for communicative competence, and acquire practical knowledge of teaching. Featured are lesson and unit planning, teaching tasks, teaching strategies, materials development, teaching observations, and assessment based upon standards and learner performance guidelines. The course is also focused on the American Council of Foreign Language Teachers proficiency guidelines and Pennsylvania Department of Education World Languages content standards. The Intermediate Performance Assessment is also a focus of the course, and thus the 6 Temple University Teacher Education Program Performance Standards will be examined and applied extensively to foreign language teaching. Finally, a review of second language acquisition in relation to FL pedagogy is given. The goal of the course is to allow students to apply their pedagogical and content knowledge to a middle or high school foreign language teaching context.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**College Restrictions:** Must be enrolled in one of the following Colleges: Education & Human Development.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5465. Methods and Materials in Secondary Social Studies. 3 Credit Hours.**

The purpose of this course is to develop an understanding of teaching the four major content areas of the social studies (history, geography, economics, and civics and government). The goal is to help prepare candidates to teach these areas in terms of designing curriculum and assessment; adapting strategies from the field; and considering innovative ways to teach by drawing on available resources. The course will cover the important theories of social education and the developmental course of learning history, economics, civics, geography, psychology, sociology, and anthropology.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5466. Teaching for Understanding in Secondary Social Studies. 3 Credit Hours.**

This course focuses on applied social studies methods; the course objectives are (1) that pre-service social studies teachers will learn about the rich resources found at museums, archives, and historic sites and (2) that they will have an opportunity to apply what they have learned in the program to developing curricular materials. There is a required field experience for which students are placed at Philadelphia area cultural institutions. Students will be developing collections and curriculum materials for schools and teachers in general and for National History Day. Class time will be devoted to strengthening and supporting the field experience.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Repeatability:** This course may not be repeated for additional credits.

**Pre-requisites:** Minimum grade of B- in EDUC 5402.

**MGSE 5641. Teaching Written Composition in the Secondary School. 3 Credit Hours.**

An examination of the knowledge that writers employ when they compose different kinds of texts, of the instructional contexts that are most effective in helping secondary students develop that knowledge, of the extent to which different student populations require different approaches, and of the research and theory that informs effective practice. NOTE: As part of the course, students spend 2-3 hours each week assisting in a language arts classroom. Clearances are required.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5642. Teaching Literature and Reading in the Secondary School. 3 Credit Hours.**

An investigation of the research and theory that informs what texts ought to be taught in secondary schools, how to teach them most effectively, and the extent to which different student populations require different approaches. NOTE: As part of the course, students spend 2-3 hours each week assisting in a language arts classroom. Clearances are required.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Repeatability:** This course may not be repeated for additional credits.

**MGSE 5796. Literacy and Differentiation in the Academic Areas, 7-12. 3 Credit Hours.**

This course examines ways in which secondary teachers can support students' engagement with reading and writing in the disciplines, including Mathematics, History & Social Studies, the Sciences, Foreign Language, English, and Career and Technical Education. How can we teach all students the concepts, facts, and skills that they need to do well in our discipline? What kinds of reading and writing issues can inhibit students' progress? How do we identify the kinds of difficulties that different text organizations may pose for students? How can we address these issues without taking time away from teaching our discipline? What kinds of reading and writing tasks can we use as resources for helping students to learn in our discipline? How do current state and national emphases on standards and teacher accountability affect our responsibilities in the classroom?

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.