

MGED: MIDDLE GRADES EDUCATION

MGED 7000 Special Topics in Middle Grades Education 1-0-1 to 3-0-3

Studies of selected topics in middle grades education. Only one special topics course may be used in a program of study.

MGED 7010 Personal Development of Transescents 3-0-3

Emphasizes learning for personal meaning and involvement, focusing upon goals usually classified in affective domain such as self-awareness, value clarification, interpersonal relations, and moral reasoning as related to middle grades child

MGED 7020 Curriculum in the Middle Grades 3-0-3

Reviews the current status and trends in middle grades concept as evidenced in practice. Analysis of middle grades curriculum and its unique construction and planning.

MGED 7030 Teaching Strategies 3-0-3

Designed to provide classroom teacher with theoretical, practical, and research bases for consideration in selection of instructional strategies based on unique function of content as it relates to intellectual needs of middle grades child

MGED 7040 Evaluation and Assessment 3-0-3

Focuses primarily on the basic concepts, methods, and tools of assessment or evaluation. It is designed so professional educators can combine their initial experience and understanding of middle grades child with information regarding their past performances to assess children's abilities.

MGED 7200 Language Arts Methods for Middle Grades Education 3-0-3

A study of expressive and receptive skills of communication in middle grades with emphasis upon teaching extended skills in listening, speaking, reading, and writing.

MGED 7210 Literature for Interdisciplinary

Instruction for Middle Grades 3-0-3

A survey of literary forms appropriate for interdisciplinary instruction for middle grades (4-8).

MGED 7300 Social Studies Methods for Middle Grades Education 3-0-3

Trends in social studies, curriculum of middle grades, with emphasis on selection of content, grade placement of concepts and activities, methods of teaching, needed equipment, and community resources.

MGED 7310 Methods of Teaching Geography in the Middle Grades 3-0-3

Methods and materials used in teaching geography. Concepts include land and water forms, relief features, direction and distance, social data, economic information, political information, scientific information and human factors.

MGED 7320 Children of Diverse Cultures 3-0-3

General introduction to the study of methodology, materials, and evaluative strategies for teaching children of minority cultures in service area.

MGED 7400 Methods and Materials of Teaching

Mathematics in the Middle Grades 3-0-3

Overview of curriculum, leading theory and research in mathematics education, survey of topics for grades 4-8 in terms of teaching strategies.

- MGED 7410 Applications of New Technology In Teaching Middle Grades Mathematics** 3-0-3
Integration of technology into mathematics teaching for grades 4-8. Calculators and computers as tools for instruction across the mathematics curriculum.
- MGED 7420 Teaching Problem Solving in Middle Grades Mathematics** 3-0-3
Problem solving as an overriding goal of mathematics instruction. Development of repertoire of strategies in pupils for solving non-routine problems. Techniques for promoting alternative solutions and methods of attack.
- MGED 7430 Teaching Geometry and Measurement in the Middle Grades** 3-0-3
Methods and materials for instruction in informational geometry and measurement, particularly metric system. Teaching techniques applied to both solid and planar geometry, including topology, tessellations, and transformational geometry.
- MGED 7440 Teaching of Probability and Statistics in the Middle Grades** 3-0-3
Experiential-based activities of teaching probability and statistics in grades 4-8. Data collection, organization, graphical presentation and interpretation. Methods and materials for teaching probability, with an emphasis on application
- MGED 7500 Science Methods for Middle Grades Education** 3-0-3
Trends in science curriculum of middle grades, with emphasis on selection of content, concepts and activities, methods of teaching, equipment, and community resources.
- MGED 7520 Life Science for Middle Grades** 3-0-3
Life science concepts and methods of teaching these concepts in middle grades. Topics include: living world, diversity of life, heredity, cells, interdependence of life, flow of matter and energy, history of life, and human organism.
- MGED 7600 Practicum in Middle Grades Education** 1-0-1 to 3-0-3
- MGED 7610 Beginning Teacher Practicum in Middle Grades Education** 3-0-3
Designed to provide support for middle grades beginning teachers (0 - 3 years experience). Encompass practical applications of organization and management, educational planning based on assessments, teaching and learning strategies, and behavioral management.
- MGED 7620 Renewal Institute for Practicing Educators** 3-0-3
Provides support for experienced middle grades teachers (5 or more years of experience) who are seeking renewal of philosophy, pedagogy and personal development.
- MGED 7650 Issues and Trends Field Based Project** 3-0-3
Prerequisite: Completion of primary concentration area and core courses.
Individual professional investigation of issues and trends in academic content area at a site. Development of an academic plan.
- MGED 7660 Internship in Middle Grades Education** 2-0-2
Prerequisite: MGED 7650.
- MGED 7900 Directed Study in Middle Grades Education** 1-0-1 to 3-0-3
Prerequisites: 15 Hours of Graduate Work with a B average. Opportunity for intensive individual study in the student's field of specialization of an area peculiar to his or her needs.

- MGED 7910 Educational Workshop** 3-0-3
A concentrated study of contemporary problems and issues relevant to middle grades.
- MGED 8000 Special Topics in Middle Grades Education** 2-0-2 or 3-0-3
Studies of selected topics in middle grades education. Only one special topics course may be used in sixth year program.
- MGED 8100 Applied MGED Program Development and Leadership** 3-0-3
Prerequisites: RSCH 8000. Is designed to provide the Educational Specialist student with application of program development and leadership skills at classroom, team, and school levels. A major emphasis will be needs assessment of existing programs, selection of an area that needs improvement, and development of a plan for improvement. Integrated throughout will be criteria for being a successful change agent at different levels.
- MGED 8110 Review and Critique of Educational Literature in Middle Grades Education** 3-0-3
Prerequisites: RSCH 8000, MGED 8100. Review and critique of modern issues and trends in middle grades education.
- MGED 8900 Symposium** 1-2-2
Prerequisites: RSCH 8000, MGED 8100, MGED 8110. Designed to provide opportunities for students to present, and defend a selected professional research project
- MGED 8990 Middle Grades Education Research Project** 1-4-4
Prerequisites: RSCH 8000, MGED 8100, MGED 8110, MGED 8900. Is the fifth phase of the action research and leadership component for the Educational Specialist degree.

MUE: MUSIC EDUCATION

- MUE 5100 Arranging for School Band, Chorus, and Orchestra** 2-0-2
Prerequisites: MUSC 2012 and 2052. Basic techniques of scoring for school choral and instrumental groups. Three periods a week.
- MUE 5640 Music for Teachers** 3-0-3
Music materials and methods for the elementary teacher in the school. Not open to music majors.
- MUE 7000 Issues and Trends in Music Education** 3-0-3
Current trends and issues of contemporary music education.
- MUE 7600 Instrumental Music Curriculum** 3-0-3
Materials and teaching techniques relative to choral music education.
- MUE 7610 Choral Music Curriculum** 3-0-3
Materials and teaching techniques relative to choral music education.
- MUE 7640 General Music Curriculum** 3-0-3
Review of current methods and approaches of general music education, including multicultural approaches to music teaching.
- MUE 7660 Psychology of Music** 3-0-3
Psychological foundations of music teaching and learning, including music for the exceptional child.

MUE 7900 Directed Study in Music Education	1-0-1 to 3-0-3
MUE 7999 Thesis	3-0-3
Prerequisite: Completion of the required core courses in Education and Music. A capstone research course resulting in the proposal and preparation of a thesis. A defense of the thesis is required.	

MUSC: MUSIC

MUSC 5110 Jazz Arranging	2-0-2
Prerequisite: MUSC 2030 and 1170, or permission of instructor. The application of analytic techniques to the study of musical scores.	
MUSC 5170 Music Composition	1-0-1
Prerequisite: MUSC 2030 and/or permission of the instructor. Foundations in music composition employing both traditional and contemporary techniques. May be repeated for credit.	
MUSC 5430 History of Jazz	2-0-2
A comprehensive study of the development of jazz and ragtime from its African origin through present day. Emphasis on evaluation of stylistic, trends, and techniques. Students enrolled in 5430 will write a major term paper using a specific style period as subject matter. Open to both music and non-music majors.	
MUSC 5500 Band Literature	1-0-1
Prerequisite: MUSC 1100. Study of styles and eras of band literature appropriate for a variety of ensembles.	
MUSC 5510 Choral Literature	1-0-1
Prerequisite: MUSC 1100. Study of styles and eras of choral literature appropriate for a variety of ensembles.	
MUSC 5520 Symphonic Literature	2-0-2
Prerequisite: MUSC 1100. A survey of Western symphonic music.	
MUSC 5960 Opera Seminar	1-0-1
The study and analysis of scenes from opera and operetta.	
MUSC 6450 History of Music to 1825	3-0-3
Prerequisite: MUSC 1100 or permission of instructor. History of music from medieval times through the Classical era.	
MUSC 6460 History of Music Since 1825	3-0-3
Prerequisite: MUSC 1100 or permission of instructor. A survey and study of the various trends and movements in music in the romantic era and twentieth century.	
MUSC 6510 Song Literature I	2-0-1
Survey course in art song literature. MUSC 6510 peruses the literature from the Renaissance through the German Lieder School spanning the nineteenth century and the first half of the twentieth century.	
MUSC 6520 Song Literature II	2-0-1
Survey course in art song literature. MUSC 6520 peruses the nineteenth and twentieth-century French, Spanish, English, and American song schools.	
MUSC 6540 Piano Literature I	1-0-1
Survey course in piano literature. The keyboard instruments and literature of the Renaissance, Baroque, and Classical eras..	

MUSC 6550 Piano Literature II	1-0-1
Survey course in piano literature. The piano literature of the Romantic period and representative repertory of the last one hundred years.	
MUSC 6570 Organ Literature I	1-0-1
The study of organ literature and organ design from the origins of the instrument to the time of J. S. Bach.	
MUSC 6580 Organ Literature II	1-0-1
The study of organ literature and organ design from the time of J. S. Bach to the present.	
MUSC 6760 Jazz Pedagogy	1-0-1
The study of jazz methods and jazz materials, including lab teaching experience.	
MUSC 7010 Music Theory	3-0-3
Graduate survey in music theory.	
MUSC 7020 Music History	3-0-3
Graduate survey in music history.	
MUSC 7030 The Science of Music	3-0-3
Scientific aspects of music with an emphasis upon electronic treatments of sound.	
MUSC 7040 Computer Applications in Music	3-0-3
This course is an introduction to the basic skills in computer applications for music, including MIDI (Musical Instrument Digital Interface).	
MUSC 7530 Chamber Music	3-0-3
Selected studies in the history and theory of chamber music masterworks.	
MUSC 7650 Conducting	3-0-3
Techniques in conducting.	

APPLIED MUSIC (MUSC)

Student enrolling in Applied Music will be assigned to an instructor by the Head of the Music Department, and a list of assignments will be posted in the Music Department Office on the day following registration. Student must arrange for a lesson time with the assigned instructor by the end of the second day of classes. Students not scheduled by the end of the second day of classes will be dropped from the course.

Secondary Applied: These courses award one credit hour each semester, and one thirty-minute lesson will be scheduled each week. Requirements will be determined by the instructor. Secondary applied lessons are available to any student regardless of major, depending on the availability of faculty.

Secondary Applied

MUSC 5210 Piano	Graduate	0-1-1
MUSC 5310 Organ	Graduate	0-1-1
MUSC 5410 Voice	Graduate	0-1-1
MUSC 5610 Brass	Graduate	0-1-1
MUSC 5910 Woodwinds	Graduate	0-1-1
MUSC 6310 Percussion	Graduate	0-1-1
MUSC 6410 Strings	Graduate	0-1-1

- MUSC 5810 Chamber Singers** **0-2-1**
 A selected ensemble emphasizing choral and vocal chamber music repertoire. Selection by audition only. Membership open to all VSU graduate students.
- MUSC 5820 Concert Choir** **0-3-1**
 Open to any VSU student by permission of the instructor.
- MUSC 5830 The Spotlighters** **0-2-1**
 A select choral ensemble emphasizing popular, jazz, blues, and show tune repertoire. Selection by audition only.
- MUSC 5840 Opera and Musical Theatre** **0-2-1**
 Music drama production and ensemble work. Preparation of scenes and full-scale productions.
- MUSC 5850 Concert Band** **0-3-1**
 Open to any VSU student by permission of the instructor.
- MUSC 5860 Orchestra** **0-3-1**
 Open to VSU students with permission of the instructor.
- MUSC 5870 Jazz Ensemble** **0-3-1**
 Selection by audition only.
- MUSC 5880 Marching Band** **0-3-1**
 Performance and all football games and various exhibitions. Auditions required for danceline, color guard, and majorette. Fall semester only.
- MUSC 5890 Instrumental Ensembles** **0-2-1**
 Study and performance of repertoire for a variety of combinations of instruments. Open by permission of instructor.
- MUSC 6870 Jazz Combo** **0-2-1**
 Study and performance of a wide variety of jazz styles for 5-8 member ensemble. Selection by audition only.
- MUSC 6880 University Community Band** **0-3-1**
 Study and performance of standard band literature. Open to VSU students and members of the community by permission of the instructor.
- MUSC 6890 Vocal Chamber Ensembles** **0-1-1**
 Ensemble performance in musicals, opera, and other such events in conjunction with the departments of music and theatre.

NURS: NURSING

- NURS 7020 Family Nursing** **3-0-3**
 Examines the biophysical, psychosocial, culture, intellectual, and spiritual nature of health and illness within families. Forces for health or illness, dynamics of family health, and helping relationships with families are explored.
- NURS 7011 Statistical Applications In Nursing Research and Practice** **3-0-3**
 Emphasizes application of appropriate descriptive and inferential statistical procedures using numerous examples of nursing research and practice data. Selection of correct statistical procedures, analysis of data, and interpretation of statistical results are discussed. This course is required for graduate nursing students who have not completed undergraduate statistics.
- NURS 7060 Directed Study in Nursing** **1-0-1 to 5-0-5**
 Enables the student to explore in depth a topic relevant to his/her special interest in nursing.

- NURS 7070 Special Topics in Advanced Nursing** 1-0-1 to 5-0-5
Provides opportunities for study on topics of interest in advanced nursing practice.
- NURS 7100 Clinical Pathophysiology** 3-0-3
Prerequisites: Graduate standing. Provides advanced principles of human physiology and pathogenesis of diseases. Emphasis is on etiology, pathogenesis and clinical manifestations of disease processes commonly encountered in advanced nursing practice.
- NURS 7110 Theories Used in Nursing** 2-0-2
Prerequisites: Graduate standing. Analysis of concepts, models, and theories; both nursing theories and others used in nursing. Emphasis is use of theory in advanced nursing practice, education, management, and research.
- NURS 7120 Nursing Research** 3-0-3
Prerequisite: Statistics Pre- or Corequisite: NURS 7110. The study of principles and design of nursing research. Quantitative, qualitative, and epidemiological methods are considered. Emphasis is on significant problem formulation, methods of investigation, results, conclusions, and strategies for nursing implementation by the development of a research paper.
- NURS 7130 Seminar in Issues and Health Policy** 0-3-1
Pre- or Corequisite: NURS 7110. Analysis of trends and issues which impact client health and health care delivery systems. Professional activities which positively effect policy and polity are explored.
- NURS 7140 Leadership in Advanced Nursing Roles** 3-0-3
This course provides the student with leadership and management skills for advanced nursing roles. Various advanced nursing roles will be explored with emphasis on leadership and management strategies to overcome barriers and enhance nursing practice in a changing health care environment.
- NURS 7211 Advanced Nursing Care with Growing Families** 3-9-6
Prerequisites: NURS 7110 and NURS 7100. Applies specialized knowledge and current research to competent caring of childbearing and child rearing families. Explores the effects of sociocultural issues and environmental on the well-being of children and their families. Identifies the common health problems of childbearing and child rearing and appropriate interventions to promote holistic health and development. Clinical experiences focus on the application of advanced practice theory to childbearing and child rearing families within multiple settings and emphasizing health promotion of growing families.
- NURS 7230 Pharmacotherapeutics** 3-0-3
Prerequisite: NURS 4060 or demonstrated competence. The study of pharmacokinetic processes and drugs used in advanced practice of nursing. Legal considerations of prescriptive privileges are incorporated into the selection of appropriate drugs and dosages for client problems. Students compile a drug protocol manual as part of the learning process. This course is required for students in the Nurse Practitioner track; is open to all graduate students in nursing.
- NURS 7231 Advanced Nursing for Health Promotion of Adults** 3-0-3
Prerequisites: NURS 7110 and NURS 7100. Focuses on holistic and comprehensive nursing care of multicultural adult populations utilizing current research and theoretical concepts related to health promotion and disease prevention. One

of the Advanced Nursing Health Promotion Clinical Laboratories must be taken concurrently.

NURS 7231K Advanced Nursing: Health Promotion of Adults

Clinical Laboratory

0-9-3

Corequisite: NURS 7230. Clinical experiences focus on the application of advanced practice theory related to wellness and health promotion and lifestyle modification within role specific settings.

NURS 7251 Mental Health Nursing with Person

3-9-6

Prerequisites: NURS 7100 and NURS 7110. Explores psychodynamic, behavioral, developmental and humanistic approaches to helping processes for individuals in crisis. Incorporates a worldwide and multicultural perspective. Emphasis is on developing competencies as a nurse counselor caring for clients with acute and chronic episodes of emotional distress. Clinical experience focuses on development of skills needed to modify individual behavior toward balance, adaptation, and holism.

NURS 7291 Advanced Nursing: Health Promotion of Adults

0-9-3

Clinical Laboratory—NP

Corequisite: NURS 7230. Clinical experiences focus of the application of advanced practice theory related to assessment and health promotion within role specific settings. Open only to Nurse Practitioner students.

NURS 7312 Advanced Nursing Care with Growing

Families During Health Crisis

3-9-6

Prerequisite: NURS 7211. Explores the specialized knowing required for holistic care of childbearing and child rearing families in crisis. Epidemiologic methods are utilized to identify the health hazards of each stage of childbearing and child rearing and to prioritize appropriate interventions. Emphasis is on competent nursing care during acute illness and promotion of health during long-term problems. Incorporates evaluation of research and theories appropriate to the health status of client families. Clinical experiences focus on the application of advanced practice theory within settings which care for families undergoing health crisis.

NURS 7321 Curriculum Design for Nursing

2-3-3

Prerequisites: Clinical focus courses. Focuses on the historical and current theories and trends in curricular development. Students will explore curricular designs, implementation issues, course development, and program evaluation issues related to nursing education. Laboratory experiences include activities such as curriculum meetings, classroom and clinical observation/evaluation, and development of a prototype nursing curriculum.

NURS 7331 Nursing Administration: Role and Theories

2-3-3

Prerequisites: Clinical Focus Courses. Presents theoretical role, functions, strategies, and techniques used for leading, managing and administrating the nursing function in a variety of settings. Provides a clinical component in which the roles of the nurse administrator as a leader for creative nursing practice, as a colleague with other health care administrators, and as a nursing spokesman interacting with others of influence in the health care system are examined.

- NURS 7332 Advanced Nursing for Health Restoration of Adults** 3-0-3
Prerequisites: NURS 7230. **Either NURS 7332k or NURS 7392 must be taken concurrently.** Focuses on holistic and comprehensive nursing care of multicultural adult populations utilizing current research and theoretical concepts related to health restoration. Concepts include advanced nursing care of acute and chronic illnesses common to adult populations.
- NURS 7332K Advanced Nursing: Health Restoration of Adults**
Clinical Laboratory 0-9-3
Corequisite: NURS 7332. Clinical laboratory focused on application of principles related to nursing management of clinical problems in caring for adults with acute and chronic illnesses within a variety of clinical settings.
- NURS 7341 Care Manager: Role and Theories** 2-3-3
Prerequisite: **Completion of Clinical Focus Courses.** Explores the concept and models of care management within the context of the current and evolving health care environment. Examines the relationship of care management, managed care, and patient/family holistic care needs. Clinical experiences provide the opportunity to analyze care management strategies for quality and cost effectiveness and to explore development of the nursing care management role.
- NURS 7352 Mental Health Nursing with Persons** 3-9-6
Prerequisite: NURS 7251. Explores multiple theoretical approaches for effecting positive growth in groups and family systems. Counseling competencies with groups and families to catalyze effective change/adaptation toward holistic mental health are emphasized. Clinical experience is focused on developing effective counseling skills with groups and families.
- NURS 7391 Nurse Practitioner: Diagnostic and Therapeutic Parameters** 2-6-4
Prerequisite or corequisite: NURS 7230. Focuses on holistic and comprehensive nursing care within the role of the nurse practitioner. Emphasis is on identification and management of the health care needs of adults. Research related to the role of advanced practice as a nurse practitioner is applied. Clinical experience is focused on application of principles related to diagnostic modalities and therapies for common health problems. Open only to Nurse Practitioner students.
- NURS 7392 Advanced Nursing: Health Restoration of Adults**
Clinical Laboratory—NP 0-9-3
Corequisite: NURS 7332. Clinical experiences focused on application of advanced practice theory related to acute and chronic illnesses within role specific settings. Open only to Nurse Practitioner students.
- NURS 7422 Teaching Strategies for Nursing** 1-15-6
Prerequisites: NURS 7321. Focuses on the theoretical concepts related to nursing education. Students will explore, develop, and implement a variety of teaching strategies. Laboratory hours will be spent in mentorship relationships with nursing faculty as a novice educator in classroom and clinical settings.

- NURS 7432 Nursing Administration: Implementation of Role** **1-15-6**
Prerequisite: NURS 7331. Synthesizes knowledge of the health care system, theories of administration and organization, nursing theories, role theory, issues, trends, financial and policy development, and research in health care systems into practice. The clinical practicum experience develops beginning competencies as a nurse administrator in health care systems.
- NURS 7442 Care Manager: Nursing Role Development and Implementation.** **1-15-6**
Prerequisite: NURS 7341. Explains the development, implementation, and evaluation of care management models and plans. Explores the relationship between care management, quality improvement, and holistic care. Identifies strategies for measuring, evaluating, and assessing care management outcomes. Clinical experiences provide the opportunity to design and implement care management strategies.
- NURS 7460 Financial Management for Nurses** **3-0-3**
Prerequisites: Clinical Focus Courses. Provides an overview of financial management topics such as accounting, economics, strategic planning, decision making tools, and marketing in order to prepare the senior or mid-level health care manager for a collegial relationship with their financial manager. Open to all graduate students in Nursing who have prerequisites.
- NURS 7463 Thesis** **1-0-1 to 6-0-6**
Prerequisite: NURS 7120. The research process is utilized to investigate a nursing question.
- NURS 7473 Project** **1-0-1 to 6-0-6**
Prerequisite: NURS 7120. Independent study to develop a nursing project of the student's choice under the supervision of a faculty member.
- NURS 7492 Nurse Practitioner: Therapeutic Interventions and Role Implementation** **1-15-6**
Pre- or corequisite: NURS 7391. Focuses on the synthesis of concepts and generation of research issues related to the role of the Nurse Practitioner. Emphasis is on provision of holistic nursing in the supervised role of adult nurse practitioner within a variety of settings.
- NURS 7590 Nurse Practitioner Practicum** **0-18-6**
Prerequisites: NURS 7230, NURS 7391, and NURS 7492.
Corequisite: NURS 7990. Clinical practicum focused on synthesis and application of advanced practice theory for nurse practitioners within a variety of settings. Emphasis is on developing competence as a primary health care provider.
- NURS 7990 Synthesis Seminar.** **0-6-2**
Corequisite: NURS 7590. Focuses on synthesis and application of knowledge required to function as a competent nurse practitioner. Students explore ethics, marketing, practice management, and standards of practice for the nurse practitioner.

PADM: PUBLIC ADMINISTRATION

- PADM 7000 Human Resource Management** 3-0-3
A study of Human Resource Management. This course examines the processes of personnel administration and relates them to the human resource needs of organizations.
- PADM 7010 Public Sector Labor Relations** 3-0-3
An analysis of labor relations in public organizations. Topics include labor management interaction, dispute resolution, and wage and non-wage impacts of public employee organizations.
- PADM 7020 Public Sector Planning** 3-0-3
An exploration of the elements of public sector planning, including data validation, forecasting and projection techniques, and decision making.
- PADM 7030 Seminar in Public Administration** 3-0-3
A seminar focusing on areas of special interest to the instructor and of contemporary interest to students.
- PADM 7040 Non-Profit Management** 3-0-3
A survey of the types, methods, and techniques of management of organizations outside the dualistic public and private sector model. Emphasis is on revenue strategies, structure and control.
- PADM 7050 Administrative Law and Government** 3-0-3
An overview of the administrative legal processes, focusing on the formation and execution of public policy. Special emphasis is placed upon protecting the rights of all parties in the complex processes of administrative law, policy formation, and implementation.
- PADM 7060 Quantitative Methods for Public Administration** 3-0-3
The application of quantitative methods to problems faced by public administration practitioners. Topics include regression analysis and the use of probability theory as they apply to decision making in public management.
- PADM 7070 Computer Applications in Public Administration** 3-0-3
The application of computers in public management. The course will develop awareness, understanding, and appreciation of the role of computers in the public and not-for-profit sectors. Topics include spreadsheet applications, statistical applications, and the role of computers in capital and human resource management.
- PADM 7080 Public Presentations** 3-0-3
A survey of techniques in public speaking and information technology with application to political and administrative proposals. Emphasis is placed upon delineation of alternatives and ethical issues.
- PADM 7090 Policy Analysis** 3-0-3
Prerequisite: PADM 7060. A systematic survey of the theories, basic concepts and approaches associated with empirical analysis of public policies. Topics include problems and uses of analysis, with reliance on case studies.
- PADM 7100 Seminar in Public Policy** 3-0-3
An in-depth analysis of current issues of public policy. Emphasis is placed on the managerial implications of one or more public policies under consideration at the local, state or federal level.

- PADM 7110 Information Management** 3-0-3
 A survey of the issues and problems of information management. Emphasis is on modern developments in the generation, storage, classification and transmission of information vital to the management of public organizations.
- PADM 7120 Accounting for the Public Sector** 3-0-3
 A study of the role accounting plays in the overall management process with public agencies. Emphasis is given to the use of accounting techniques as a means of assuring proper control over funds entrusted for public purposes.
- PADM 7130 Politics of Public Administration** 3-0-3
 An examination of the uses of power by governmental agencies to obtain external supports and fulfill internal needs. Topics are constituency relations, technical expertise, power of bureaucratic routines, agency competition, and reliance upon case studies.
- PADM 7140 Governmental Budgeting and Finance** 3-0-3
 An analysis of financial management and budgeting procedures as applied to federal, state and local governments.
- PADM 7150 Public Management** 3-0-3
 An examination of the basic concepts and techniques of management, with emphasis upon strategies, structure, organizational behavior and control.
- PADM 7160 Policy Analysis and Planning** 3-0-3
Prerequisites: PADM 7020 and PADM 7090. An in-depth exploration of empirical analytical techniques with emphasis on their relationship to public sector planning.
- PADM 7170 Organizational Behavior** 3-0-3
 An introduction to major theories concerning management in the public sector, including analysis of individual behavior in an organizational context. Emphasis is on the politicized environment.
- PADM 7180 Labor Law** 3-0-3
 An examination of modern labor movements in the United States, with special attention to the National Labor Relations Act and other fair employment practices acts. Attention will also be focused on the laws of unionization, collective bargaining, strikes, and picketing.
- PADM 7190 Special Topics in Public Administration** 3-0-3
 Study in areas which are not ordinarily covered in the MPA Program, but which may be of contemporary or special interest to MPA students at the time.
- PADM 7200 Directed Study in Public Administration** 1-0-1 to 3-0-3
 Directed readings in selected areas of public administration with regular conferences between the student and the faculty member.
- PADM 7210 Internship in Public Administration** 1-0-1
 A one semester internship in public or not -for-profit agency. The internship is designed to gain practical experience in the field of public administration. A written report or a portfolio development is required.
- PADM 7240 Public Administration and Community Based Organizations** 3-0-3
 An examination of the relationships between urban public administrators and their environment. Topics include but are not limited to the role community organizations, interest groups, and demographic diversity upon the management function.

PADM 7250 Managing Small Cities & Counties **3-0-3**
An overview of local government operations for small and mid-sized communities. Topics include legal issues, the clerk's office, emergency management, planning, economic development, public works, leisure and human services, police and fire services, budgeting and financial management, personnel, communication, and intergovernmental relations.

PADM 9090 Educational Policy Analysis **3-0-3**
Prerequisites: Doctoral standing or approval of instructor. A systematic survey, of the theory, concepts and approaches associated with empirical analysis of public educational policies in a multicultural environment. Topics include quantitative and qualitative tools and methods of analysis. The case studies approach is utilized.

PHIL: PHILOSOPHY

PHIL 5100 Ethics and Health Care **3-0-3**
A study of ethical issue in health care delivery, with special emphasis on topics such as abortion, euthanasia, paternalism and autonomy, confidentiality, medical experimentation and informed consent, allocation of scarce resources, and the right to health care.

PHIL 5150 Ethics and Business **3-0-3**
A study of ethical issues in business and society, with special emphasis on corporate responsibility, regulation of business, and the protection of workers, consumers and the environment.

PHIL 5190 Ethics and the Social Sciences **3-0-3**
A study of ethical issues in the social sciences, with special emphasis on issues such as human and animal experimentation, counseling, behavior control, punishment, psychological and sociological determination, and gender and racial discrimination.

PHIL 6120 Ethics and Public Policy **3-0-3**
A study of ethical issues involved in public policy, with special emphasis on issues such as affirmative action, abortion, euthanasia, capital punishment, free speech and privacy.

PHIL 6220 Ethics and Public Administration **3-0-3**
A study of ethical issues in public administration, with special emphasis on developing analytical skills in ethical decision-making in the public sector, highlighting the role of ethics and professional responsibility in public service, and identifying situations involving professional malfeasance such as conflict of interest.

PHIL 7100 Topics in Ethics and Sport **3-0-3**
A seminar in ethical issues in sports and contemporary society.

PHIL 7900 Topics in Philosophy **3-0-3**
A special topics course, designed to address a selected topic for research analysis.

PHIL 9070 Philosophy of Education **3-0-3**
A systematic analysis of topics central to educational philosophy, including theories of education, logic, critical thinking and scientific method, and ethical issues

in education. Seminar discussions and case studies are utilized, as is World Wide Web Internet technology.

PHSC: PHYSICAL SCIENCE

PHSC 5010 Experimental Physical Science **2-4-4**

This course covers the basic principles of physical science, and how apparatus can be built from commonly available materials in order to demonstrate these principles.

PHSC 5050 Observational Astronomy **2-4-4**

A study of the observation of celestial objects visible to the unaided eye, with astronomical photography, the position and motion of objects in the sky, locating celestial objects with the telescope and the use of star charts. The course consists of about 25 hours of lecture and 50 hours of laboratory work.

PHYS: PHYSICS

PHYS 5040 Electronics **2-4-4**

A lecture-laboratory study of basic electrical circuits and techniques, including extensive use of the oscilloscope. Both continuous wave and pulse phenomena are treated.

PHYS 5100 Optics **2-2-3**

An intermediate level course with emphasis on physical optics. Topics include interference, polarization, dispersion, absorption, resonance and quantum effects. The electromagnetic nature of light is emphasized.

PHYS 5810 Mathematical Methods of Physics **3-0-3**

Special topics in mathematics as related to advance study in physics. Topics include vector analysis, differential equations, orthogonal functions, eigenvalue problems, matrix methods, and complex variables.

PHYS 5820 Computational Physics **3-0-3**

Topics include formulation of equations describing physical systems and the use of computers to solve them, computer simulations of physical systems, the use of computers to acquire and analyze data, and graphical methods of displaying data.

PHYS 6040 Experimental Physics **2-4-4**

A lecture-laboratory course devoted to techniques of research in experimental physics. Topics include treatment of data, vacuum techniques, magnetic devices, preparation and manipulation of beams of particles and radioactivity. A number of modern physics experiments are studied and performed.

PHYS 6111-6112 Theoretical Mechanics I, II **3-0-3 each**

Topics include Newtonian Mechanics, conservation laws, Lagrange's equations, and relativity.

PHYS 6211-6212 Electromagnetism I, II **3-0-3 each**

Topics include electrostatics, magnetostatics, time varying electric and magnetic fields, Maxwell's equations, and propagation of electromagnetic waves.

PHYS 6310 Statistical Physics **3-0-3**

A study of kinetic theory and statistical mechanics with a brief treatment of classical thermodynamics.

- PHYS 6411-6412 Modern Physics, I, II** **3-0-3 each**
 An introduction to twentieth-century physics with the emphasis on quantum mechanics and its applications to atomic and nuclear structure, and to solid state physics. Both wave and matrix formalisms are developed, along with their experimental implications.
- PHYS 6800 Internship in Physics** **0-6-3 to 0-12-6**
 Active participation in research in physics or in a field of science closely allied with physics, such as biophysics. A daily log of activities, a report on the work done, and a research paper relating the work done to the field of physics are required.
- PHYS 6900 Special Topics in Physics** **1-0-1 to 4-4-6**
 Topics to be assigned by instructor; may be taken more than once if topics are different, up to a total of 6 credit hours.
- PHYS 6950 Directed Study in Physics** **1-0-1 to 4-4-6**
 Study in area or subject not normally found in established courses offered by the department; may also allow student to explore in more detail and/or depth an area or subject covered by the department in physics. Up to a maximum of 12 credit hours.

POLS: POLITICAL SCIENCE

- POLS 5200 American State and Local Government and Politics** **3-0-3**
 A study of American subnational governments and politics with special emphasis upon intergovernmental relations.
- POLS 5210 The American Legislative Process** **3-0-3**
 A study of the legislative process in the United States, focusing primarily on Congress and the state legislatures. Course topics will include elections for legislative offices and the interaction between the legislature and the executive branch. The roles of parties and leaders in the legislative process will be examined.
- POLS 5300 Comparative Politics** **3-0-3**
 A study of the key concepts and theories of comparative politics. Examines case studies from different types of political systems and regions of the world.
- POLS 5400 International Politics** **3-0-3**
 A study of key concepts and theories of international politics. Examines the evolution of the contemporary international system and conflict and cooperation among nation-states.
- POLS 5500 Western Political Theory I** **3-0-3**
 An examination of the teachings of the classical period of political theory from early Greeks through the political writings of Thomas Aquinas.
- POLS 5510 Western Political Theory II** **3-0-3**
 An examination of the normative teachings of modern political theory beginning with Machiavelli up to the writings of John Stuart Mill.
- POLS 5520 Modern Political Ideologies** **3-0-3**
 An exploration of the dominant political ideologies that shape decisions about and understanding of political events, including but not limited to capitalism, socialism, communism, patriarchy, feminism, environmentalism, liberation theology, liberalism, populism, and nationalism.

- POLS 5530 American Political Thought** 3-0-3
A study of the foundations of American political thought from the Puritan era to contemporary times.
- POLS 5600 Introduction to Public Administration** 3-0-3
A focus on the study of public administration processes and underlying theories within American government structures. Emphasis is on the pragmatic aspects of current government leadership and public agency management.
- POLS 5610 Public Administration and Public Policy Formation** 3-0-3
An examination of the basic problems involved in the development of public policy by government actors and institutions, with emphasis on public decision making, organizational theory, and political and administrative influences on the policy making process.
- POLS 5620 Health Policy** 3-0-3
An examination of the emergence of national health care programs in the United States. The course focuses on the contending interests in the health policy arena and on related management issues.
- POLS 6300 European Politics** 3-0-3
A study of the politics and government of Europe. The course focuses on key political institutions and issues in major European countries, and the impact of integration on the nation-state.
- POLS 6310 Politics in Russia** 3-0-3
A comprehensive study of the Russian political system with careful attention to the Soviet communist era. Major topics include the role of political parties, institutional changes, political culture, and leadership.
- POLS 6320 Latin American Politics** 3-0-3
A study of the politics and governments of the nation-states of Central and South America. The course focuses on key political institutions and issues in major Latin American countries.
- POLS 6330 African Politics** 3-0-3
A study of the domestic and international politics of Africa from the pre-colonial period to the present day.
- POLS 6340 Comparative Political Leadership** 3-0-3
An application of theories of political leadership in a comparative framework. There will be considerations of conditions leading to effective as well as to failed leadership. Course material will include case studies of individual leaders as well as of key leadership bodies.
- POLS 6350 Politics in Developing Nations** 3-0-3
The study of political institutions, processes and behavior within a comparative perspective.
- POLS 6360 Politics of Post-Communism** 3-0-3
An examination of the political dynamics of Eurasia. Comparisons of emergent political systems in East Central Europe, Russia, and the newly independent nations formed out of the old Soviet Union will constitute the central focus. A secondary emphasis will be study of the regional and international orientations of these nation-states.
- POLS 6400 International Organization and Law** 3-0-3
Readings, cases, lectures and research on the functioning of the legal structures

in the international system with special emphasis on the relation between law and politics.

POLS 6410 American Foreign Policy 3-0-3

A study of the domestic and external pressures that guide American foreign policy planners. Specific policies toward Russia, West Europe, China, and Latin America will receive special attention.

POLS 6420 Global Security Policy 3-0-3

The study of the political efforts to deal with threats to world order arising from war, nuclear proliferation, international terrorism, the environment, the economy, and related factors.

POLS 6430 National Security Administration and Policy 3-0-3

An examination of the organizational dynamics, political features, and policy outcomes of the national security decision-making process. Special attention will be placed on the changing role of the National Security Council.

POLS 6570 Law and Public Policy 3-0-3

An overview of the impact of the legal field on the national economy, politics, and administration. Particular attention is paid to legal reasoning, legal data bases and to Lexus and Westlaw.

POLS 6580 Applied Policy Analysis 3-0-3

An emphasis on the diagnosis of a major current public policy problem, the evaluation of alternative solutions to that problem, and presentation of suggestions for implementation.

POLS 6590 Policy Analysis Practicum 3-0-3

Assignment to a public or non-profit agency to assist in the diagnosis of a major organizational policy problem. The Practicum requires preparation of possible alternative solutions to that problem, and presentation of suggestions for implementation.

POLS 6600 Government Organization and Administrative Theory 3-0-3

A systematic analysis of theories of organization, management, and administration. Special consideration will be given to institutional, behavioral, and psychological factors.

POLS 6610 Public Personnel Administration 3-0-3

An examination of procedures and problems of governmental personnel administration. Studies of governmental agencies are encouraged to give students first-hand knowledge of governmental personnel administration.

POLS 6620 Public Finance Administration 3-0-3

A study of the activities involved in the collection, custody, and expenditure of public revenue, such as the assessment and collection of taxes, public borrowing and debt administration, the preparation and enactment of the budget, financial accountability and the audit.

POLS 6630 Techniques and Processes of Public Management 3-0-3

An exploration of public management within the structure and context of a democratic government. The course examines the strengths and weaknesses of public management processes such as the National Performance Review, traditional public management techniques, and applied theories to assess change in Georgia laws. It also addresses public management leadership, decision-making, analytical

models, budgeting, and selected public issues.

- POLS 6640 Urban Politics and Administration** 3-0-3
An analysis of the governmental function in urban areas. Emphasis is placed on the management role in a political context.
- POLS 6650 Intergovernmental Relations** 3-0-3
A study of federal, state, and local governmental inter-actions, with an emphasis on the implications of these interactions for public management.
- POLS 6660 State Executive Politics and Management** 3-0-3
An examination of governors and other state and local officials, including both elected and appointed executives. The interactions of these officials with the legislative and executive branches of government will be studied. The political nature of these interactions will receive emphasis, including the governor's partisan dealings with the state legislature.
- POLS 6670 Quality Management in Public Administration** 3-0-3
An examination of the key current issues in public administration. The course explores the most current literature illuminating the issues facing public administrators in today's demanding environment.
- POLS 6680 Resource and Waste Management** 3-0-3
A survey of the issues and problems of materials production, storage and elimination. Emphasis is on modern conceptions of management within the environmental context.
- POLS 6690 Risk and Public Policy** 3-0-3
An analysis of the challenges and opportunities confronting the United States as a result of the emerging risks of globalization of the world's economies and politics.
- POLS 6700 Directed Study in Political Science** 3-0-3
Directed readings in selected areas of political science with regular conferences between instructor and students.
- POLS 6810 Special Topics in Political Science** 3-0-3
- POLS 6820 Special Topics in U. S. Government and Politics** 3-0-3
- POLS 6830 Special Topics in Comparative Politics** 3-0-3
- POLS 6840 Special Topics in International Politics** 3-0-3
- POLS 6850 Special Topics in Political Theory** 3-0-3
- POLS 6860 Special Topics in Public Administration** 3-0-3