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<td>Subject CrseNo Course Short Title</td>
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<td>2</td>
<td></td>
<td><strong>Interdepartmental</strong> Undergraduate courses</td>
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<td>3</td>
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<td>CANS 150 Canada: Cultural Crossroads</td>
<td>199210</td>
<td>An interdepartmental introduction to the geography, history, government, economy, literature, art, and music defining Canada's individuality and international heritage. An examination of current issues on such topics as economic agreements, environment, education, health system, and multicultural relations.</td>
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<td>HONR 189 Inquiries in Global Studies</td>
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<td>HONR 298 Inquiries in Life Sciences</td>
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<td>HONR 299 Inquiries in Special Topics</td>
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<td>HONR 390 Honor Colloquium</td>
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<td>LAS 101 Intro Latin-American Studies</td>
<td>200410</td>
<td>Overview of the history, development and current trends of Latin-American countries from conquest through present times, focusing on economic, sociological, and cultural tendencies including the recent Latino migrations to the United States.</td>
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<td>WGS 499 Wom and Gender Study Capstone</td>
<td>201110</td>
<td>Students will develop and reflect upon their own intellectual framework for understanding our gendered environment, synthesize interdisciplinary knowledge, explore career possibilities, and complete an activist project that involves identifying and researching a social problem, participating in action to help alleviate that problem, and reflecting on personal development. Prerequisite: WGS 210 plus 9 hours of interdisciplinary women’s and gender studies course work and permission of the program director.</td>
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<td><strong>Department of Family and Consumer Sciences</strong> Undergraduate courses</td>
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<td>FCFA 488 Fashion Buy Merch Ecommerce</td>
<td>201510</td>
<td>Gives future fashion retailers the knowledge base to make decisions on buying and merchandising in various retail environments (e.g. store, catalog, e-commerce, m-commerce) to satisfy the customer and to maintain an adequate profit level. Demonstrates mathematical and computer skills in buying and merchandising through the development of a buying plan. Prerequisite: FCFA 384 and MGT 300; and MKG 300 or MGT 342. Prerequisite or parallel: FCFA 415.</td>
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<td>FCFC 202 Child and Family Wellness</td>
<td>201510</td>
<td>Explore the concepts of wellness, emphasizing nutrition, health and safety as it applies to children and families. Increase awareness of the need for healthy environments and use of sustainable and age appropriate practices in environments with families and children.</td>
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<td>FCFC 315 Infant Toddler Curr Envir</td>
<td>201510</td>
<td>Will discuss how optimum development of children ages birth to 3 is supported by age-appropriate curriculum, based on quality adult-child interactions and a well-designed physical environment in the out of home setting.</td>
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<td>FCFC</td>
<td>250</td>
<td>Family Relations</td>
<td>201410</td>
<td>Focuses on family dynamics and interaction across a variety of family structures and backgrounds. Explores the impact of larger social systems on the family, changing concepts of family, and family processes throughout the life cycle. Emphasizes healthy interaction patterns and skills to strengthen family relationships.</td>
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<td>FCFN</td>
<td>222</td>
<td>Advanced Culinary Techniques</td>
<td>201410</td>
<td>Fundamentals of planning, preparing, and serving financially responsible, appetizing and aesthetically appealing meals in a commercial kitchen environment. Attention is given to foods and learning the fundamentals of using commercial food preparation equipment and the use of computers in food service. Prerequisite: FCFN 110. Not open to students who have credit in FCFN 220. Open only to hospitality and food management majors.</td>
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<td>FCFN</td>
<td>345</td>
<td>Macronutrients</td>
<td>201410</td>
<td>Introduces metabolic pathways, cellular metabolism, and various energy systems of the human body. Emphasizes the digestion, metabolism, transport, and excretion of macronutrients. Prerequisite: CHEM 360 and FCFN 340 and PHYS 215. Open only to those admitted to the dietetics major.</td>
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<td>FCFN</td>
<td>363</td>
<td>Admin of Food and Nutr Systems</td>
<td>201310</td>
<td>A systems approach to foodservice management theories, concepts, and functions for integrated health care, public institutions, and nutrition care operations. Emphasizes the operational functions of purchasing, production, and administration of food and nutrition services.</td>
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<td>FCFN</td>
<td>395</td>
<td>Food and Culture</td>
<td>201010</td>
<td>Explores the relationships between agricultural practices, diet patterns, food procurement and distribution, nutrition, and religious dietary doctrines from a national and global perspective. Emphasis on how culture, national and international policies, and belief systems shape food consumption patterns. Prerequisite: FCFN 240 or 275 or 340.</td>
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<td>FCFN</td>
<td>396</td>
<td>Nutrition Counseling Practicum</td>
<td>201310</td>
<td>Individual counseling methods; behavior change theories; basic dietary, biochemical, and anthropometric assessment; and multi-culture customs and food practices. Application of theory and counseling skills in various community settings focusing on student's areas of interest. Thirty hours in-class; thirty hours supervised practicum. On-site experiences supervised and evaluated by a registered dietitian. Prerequisite: FCFN 345 or permission of the department chairperson.</td>
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<td>FCFN</td>
<td>456</td>
<td>Community Nutrition</td>
<td>200810</td>
<td>Overview of community nutrition and nutrition education. Analysis of biological, economic, social, cultural, and policy issue affecting a community's nutritional status. Emphasis on federal food and nutrition programs and policy implications at the state and local level. Observation and participation in local nutrition programs. Prerequisite: FCFN 455.</td>
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<td>FCID</td>
<td>115</td>
<td>Interior Materials and Appl</td>
<td>201410</td>
<td>Study of interior materials, finishes, furniture, and architectural components. Covers floor, wall, and ceiling finishes, furniture, cabinetry, and casegoods. Selection criteria, green design, cost, quality, application, sources, and specifications will be discussed and analyzed.</td>
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<td>26</td>
<td>FCID</td>
<td>210</td>
<td>Hist and Theoretical Studies 1</td>
<td>201110</td>
<td>Chronological survey of the development of major historical periods and accompanying theoretical precedents that shape the design of the built environment from antiquity through the mid-18th century. This interactive course encourages students to articulate theories based upon historical precedents providing a catalyst for future design solutions. Prerequisite: FCID 110. Open only to interior design majors and minors.</td>
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<td>27</td>
<td>FCID</td>
<td>225</td>
<td>Hist and Theoretical Studies 2</td>
<td>201110</td>
<td>Chronological survey of the development of major historical periods and accompanying theoretical precedents that shape design of the built environment from mid-18th century to the present. This interactive course encourages students to articulate theories based upon historical precedents providing a catalyst for future design solutions. Prerequisite: FCID 210. Open only to interior design majors and minors.</td>
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<td>28</td>
<td>FCID</td>
<td>369</td>
<td>Internship in Interior Design</td>
<td>201510</td>
<td>Provides the opportunity for the student to work in an established internship setting in interior design, architecture, or related design firms to gain professional experience in the field of environmental design. Prerequisite: FCID 324 and permission of the internship coordinator. A total of 6 hours of credit may be earned. Open only to interior design majors.</td>
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<tr>
<td>29</td>
<td>FCID</td>
<td>424</td>
<td>Interior Design Studio 5</td>
<td>200810</td>
<td>Development and application of planning techniques, construction documentation techniques of larger scale commercial projects with focus on health care and office systems environments. Prerequisite: FCID 334.</td>
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<td>30</td>
<td>FCPM</td>
<td>123</td>
<td>Interior Design Basics</td>
<td>200810</td>
<td>Introduction to interior graphic communication techniques and space planning for residential environments. Design considerations, selection, specifications, and calculations for materials will be discussed. Not open to interior design majors or minors.</td>
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<tr>
<td>31</td>
<td>FCPM</td>
<td>350</td>
<td>Residential Equipment &amp; Tech</td>
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<td>32</td>
<td>FCS</td>
<td>103</td>
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<td>201510</td>
<td>Introductory course concerning the interdisciplinary nature of family and consumer sciences. Concepts include the profession's common body of knowledge, systems theory, sustainability of the environment, diversity, public policy, critical and creative thinking, professional ethics, and career exploration. Includes 24 hours of mandatory service learning. Open only to freshmen, sophomores, and juniors or by permission of the department chairperson.</td>
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<td>33</td>
<td>FCS</td>
<td>403</td>
<td>FCS in Practice</td>
<td>201510</td>
<td>Examines the integration of all disciplines in family and consumer sciences to strengthen individuals, families, and communities. Emphasis is on research, public policy, multicultural environments, ethics, and lifelong learning in a global society. Career goals are assessed. Includes immersive learning component. Involves writing. Prerequisite: FCS 103, senior standing, or by permission of the department chairperson.</td>
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<td>Graduate courses</td>
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<td>35</td>
<td>FCFN</td>
<td>680</td>
<td>Supr Pracs in Food Systems Mgt</td>
<td>200910</td>
<td>Application of management principles involved in the acquisition, production, quality control, distribution, and service of quality food in an acute-care environment; development of a philosophy of excellence in administrative leadership through supervision of foodservice personnel (360 clock hours). Prerequisite: permission of the department chairperson. Open only to dietetic internship students.</td>
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<td>36</td>
<td>FCFN</td>
<td>681</td>
<td>Supr Pracs in Nutr Therapy</td>
<td>200910</td>
<td>Application of the healthcare team approach of dietary management to human pathophysiologic status through assessing, planning, documenting, and counseling individuals and educating groups in an acute care environment (520 clock hours). Prerequisite: permission of the department chairperson. Open only to dietetic internship students.</td>
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<td>37</td>
<td>FCID</td>
<td>506</td>
<td>Design Theory and Criticism</td>
<td>200910</td>
<td>Provides the opportunity to develop intellectual and imaginative abilities through the study of innovative methodologies, scholarly design researches, the works of key design practitioners, theorists, and critics, evolving design postulations and conceptual articulations within social, cultural and economic developments over time.</td>
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<td>School of Kinesiology</td>
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<td>Undergraduate courses</td>
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<td>40</td>
<td>GERO</td>
<td>435</td>
<td>Aging in Communities</td>
<td>201410</td>
<td>Focus on community aging as it applies to all dimensions of life: biological, physiological, sociological, psychological, political, occupational, economical, educational, familial, and societal.</td>
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<td>41</td>
<td>GERO</td>
<td>440</td>
<td>Women and Aging</td>
<td>201310</td>
<td>Typical lifespan occurrences that largely impact women such as elder caregiving, familial systems maintenance, widowhood, health changes, and economic issues will be explored. Historical and theoretical perspectives; introduction to health, psychological, and living issues; introduction to racial and ethnic diversity; and social relationships will also be covered.</td>
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<td>42</td>
<td>PEP</td>
<td>444</td>
<td>Developing Health PE Classroom</td>
<td>201410</td>
<td>Focus will be on developing a classroom environment that cultivates optimal learning. This will include strategies in the areas of discipline, organization, management, engagement, and other needs in today's health and physical education classrooms. Prerequisite: PEP 161, 209, and 394; meet decision point 2 requirements; or by permission of the coordinator. Open only to health and physical education teacher education majors.</td>
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<td>43</td>
<td>SPTA</td>
<td>305</td>
<td>Sport Finance</td>
<td>201310</td>
<td>A basic knowledge of the principles, processes, and strategies related to the economic and financial aspects of sport organizations. Introduces various financial aspects used in the current sport institutions and organizations including public subsidization of sports facilities, economic impact analysis, public-private partnerships, sources revenue for team operation, and related issues. Open only to sport administration majors with full acceptance status.</td>
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<td>45</td>
<td>SPTA</td>
<td>470</td>
<td>Int and Comp Admin of Sport</td>
<td>201510</td>
<td>An investigation of the nature and role of the sport industry of different world regions. Includes an analysis of selected national systems, international and comparative sport management, and international sporting events in order to better manage the growing diversity in U.S. sport organizations due to growing migration of athletes, coaches, and professionals. Prerequisite: permission of the program coordinator. Open only to sport administration majors with full acceptance status.</td>
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<td>Graduate courses</td>
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<td>47</td>
<td>EXSC</td>
<td>633</td>
<td>Seminar in Exercise Science</td>
<td>201410</td>
<td>In-depth study of a selected physiological parameter in relation to exercise and the environment. Specific topics include respiratory physiology, fluid-electrolyte balance, muscle physiology, environment, and exercise: one topic per semester. Prerequisite: permission of the program coordinator. A total of 18 hours of credit may be earned.</td>
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<td>48</td>
<td>GERO</td>
<td>535</td>
<td>Aging in Communities</td>
<td>201310</td>
<td>Focus on community aging as it applies to all the dimensions of life: biological, physiological, sociological, psychological, political, occupational, economical, educational, familial, and societal. Not open to students who have credit in GERO 435.</td>
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<td>49</td>
<td>GERO</td>
<td>540</td>
<td>Women and Aging</td>
<td>201310</td>
<td>Typical lifespan occurrences that largely impact women such as elder caregiving, familial systems maintenance, widowhood, health changes, and economic issues will be explored. Historical and theoretical perspectives; introduction to health, psychological and living issues; introduction to racial and ethnic diversity; and social relationships will also be covered. Not open to students who have credit in GERO 440.</td>
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<td>50</td>
<td>GERO</td>
<td>605</td>
<td>Aging Well: A Systems Approach</td>
<td>201310</td>
<td>An application of the Fisher Institute Wellness Model to the processes of aging well. Seven dimensions of wellness will be examined, highlighting the potential for successful aging. Emphasizes mid-life to late-life challenges and how the principles of systems theory deepen understanding of wellness and aging.</td>
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<td>51</td>
<td>SPTA</td>
<td>628</td>
<td>International Sport</td>
<td>201110</td>
<td>An investigation of the nature and role of the sport industry of different world regions. Includes an analysis of selected national systems, international and comparative sport management, and application of theory to manage the growing diversity in U.S. sport organizations due to growing migration of athletes, coaches, and professionals. Prerequisite: permission of the program coordinator. Open only to physical education and sport: sport administration majors.</td>
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<td>52</td>
<td>WELN</td>
<td>645</td>
<td>Social Mkg in Wlns Mgmt Prac</td>
<td>201310</td>
<td>Social marketing is the use of marketing principles and a customer-driven approach when developing health behavior change strategies. This class focuses on helping wellness managers and other health professionals &quot;think like a marketer&quot; as they design, implement, and evaluate wellness-related programs.</td>
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<td>53</td>
<td>WELN</td>
<td>650</td>
<td>Foundations of Wellness</td>
<td>201310</td>
<td>First-year introduction to a wide variety of concepts and foundational thinking associated with the notion of wellness. Encourages integrative thinking about the meaning and application of wellness in life and in relation to careers as managers in the wellness environment.</td>
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<td>55</td>
<td>School of Nursing</td>
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<td>Undergraduate courses</td>
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<td>NUR</td>
<td>300</td>
<td>Env Contexts in Hlth Care</td>
<td>201510</td>
<td>Multidimensional aspects of health based on ecological, economic, and ethical issues. Environment related to internal and external dimensions (psychological, social, cultural, spiritual, physical) of health. Environment and health care in individual, family, and community at local, national, and international levels. Prerequisite: junior or senior standing or departmental permission.</td>
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<td>NUR</td>
<td>375</td>
<td>Economic Issues of Nursing</td>
<td>199610</td>
<td>Introduces basic concepts of economics in relation to nursing practice. Content will include the current and future economic issues facing the health care industry, especially those affecting nursing practice.</td>
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<td>NUR</td>
<td>404</td>
<td>Community Health</td>
<td>201310</td>
<td>Applies nursing process with individuals, families, and aggregates across the lifespan in various community settings. Uses concepts of public health, nursing, health promotion, risk reduction, disease prevention, epidemiology, information/health care technologies, human diversity, research, and health care systems/policies emphasizing collaborative practice and use of community resources. Additional fees may apply. Prerequisite: HSC 180; NUR 322, 340, 370; PSYS 241 or SOC 382; all of these courses must have a grade of C or better; permission of the director of the school. Parallel: NUR 402, 406. Open only to nursing students and registered nurses.</td>
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<td>NUR</td>
<td>456</td>
<td>Iss Hlth, Illnss and Aging</td>
<td>200210</td>
<td>Focuses on issues in health as a multidimensional experience for older adults. Includes the topics illness management, ethical decision making, health care delivery systems, wellness, disease prevention, family caregiving, economic perspectives, and cultural concerns. Emphasizes application of information by consumers and health care professionals, specifically nurses. Open to all students.</td>
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<td>Graduate courses</td>
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<td>NUR</td>
<td>662</td>
<td>Hth Care Bus and Econ</td>
<td>201410</td>
<td>Focuses on principles of business, finance, economics, and health-care informatics utilized in developing and evaluating care delivery approaches within health-care systems and clinical practice. Emphasis on cost-effective practice initiatives for elimination of health disparities and improvement of health care outcomes.</td>
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<td>NUR</td>
<td>744</td>
<td>Outcomes Res and Eval</td>
<td>200910</td>
<td>Focuses on the design and implementation of processes to evaluate health outcomes at patient, population, community, and health-care systems levels. Emphasis on the application of relevant outcomes research and evaluation findings for quality improvement at all levels of care. Prerequisite: NUR 730.</td>
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<td>NUR</td>
<td>760</td>
<td>Population Focused Care</td>
<td>200910</td>
<td>Focuses on the advanced-practice nursing role in disease prevention and health promotion for populations. Emphasis on designing, implementing, and evaluating care that will eliminate health disparities. Global health issues are explored. Clinical experience will be in a population-focused care environment. Prerequisite: NUR 730.</td>
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<td>NUR</td>
<td>764</td>
<td>Leader Hlth Pol and Adv Pract</td>
<td>201110</td>
<td>Explores the advanced-practice nurse leadership role at organizational and systems levels. Emphasis on the inter-professional dimension of health care with use of collaborative and consultation skills. Analysis, development, and implementation of health-care policies will be explored. Clinical experience will be in a leadership environment. Open only to DNP students.</td>
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<td>66</td>
<td>NUR</td>
<td>780</td>
<td>Sem:AdvTops Mgt Client Hea III</td>
<td>201110</td>
<td>Explores current client health/illness management issues. Uses advanced levels of clinical judgment and systems thinking in evidence-based care to improve patient outcomes. Open only to DNP students.</td>
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<td>Department of Technology</td>
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<td>Undergraduate courses</td>
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<td>70</td>
<td>TCMP</td>
<td>380</td>
<td>Electronic Communication Admin</td>
<td>200410</td>
<td>A study of electronic communications methodologies in an enterprise network. Topics may include e-mail and groupware systems administration. Design, selection, installation, and management of these systems will be emphasized. Prerequisite: TCMP 111, 211, 311.</td>
</tr>
<tr>
<td>71</td>
<td>TCST</td>
<td>200</td>
<td>Site Preparation</td>
<td>200410</td>
<td>The study of the processes related to the preparation of a construction site. Specific topics include the fundamentals of surveying, soil types, and foundation systems.</td>
</tr>
<tr>
<td>72</td>
<td>TCST</td>
<td>261</td>
<td>Mechanical Construction</td>
<td>201410</td>
<td>The study of managing the construction of mechanical systems, including codes, design, methods, and materials related to plumbing, heating, ventilation, air conditioning, and fire sprinkler systems. Prerequisite: TCST 104 and 106 and 180.</td>
</tr>
<tr>
<td>73</td>
<td>TCST</td>
<td>262</td>
<td>Electrical Construction</td>
<td>201410</td>
<td>The study of managing the construction of electrical systems, including codes, design, methods, and materials. Prerequisite: TCST 104 and 106 and 180.</td>
</tr>
<tr>
<td>74</td>
<td>TCST</td>
<td>303</td>
<td>Highway Construction 2</td>
<td>200810</td>
<td>Highway construction methods and economic applications. Team development of construction scheduling and cost estimates for highway construction projects under closely simulated conditions. Prerequisite: TCST 302, 355.</td>
</tr>
<tr>
<td>75</td>
<td>TCST</td>
<td>350</td>
<td>Mechanical Electrical Systems</td>
<td>200410</td>
<td>The study of codes, design, methods, and materials related to electrical, plumbing, heating, ventilation, and air conditioning systems.</td>
</tr>
<tr>
<td>76</td>
<td>TCST</td>
<td>400</td>
<td>Const Proj Mngmnt</td>
<td>201010</td>
<td>The study of project management concepts, procedures, and practices common in the construction industry. Includes construction project management concepts, roles, and responsibilities; labor relations; administrative systems and procedures; cost control data and procedures, documentation at job site and office; change orders; submittal processes; quality control philosophies and techniques; and computer applications. Prerequisite: TCST 104, 180, 320, 355, or permission of the department chairperson.</td>
</tr>
<tr>
<td>77</td>
<td>TDPT</td>
<td>100</td>
<td>Technology and Society</td>
<td>199810</td>
<td>The history, development, production, use, and assessment of technology and an examination of its effects upon resources, individuals, society, and the environment.</td>
</tr>
<tr>
<td>78</td>
<td>TDPT</td>
<td>204</td>
<td>Energy Processing</td>
<td>199810</td>
<td>Examines sources and types of energy and common energy processing techniques. Emphasizes controlling and transmitting energy and the operation of energy conversion systems. Includes laboratory activities.</td>
</tr>
<tr>
<td>79</td>
<td>TDPT</td>
<td>303</td>
<td>Manufacturing Systems</td>
<td>200810</td>
<td>Manufacturing systems, tools, and processes are studied as they are applied to producing products. Laboratory experiences cover manufacturing systems emphasizing tooling design, automated manufacturing, and control systems. Includes laboratory activities. Prerequisite: TMFG 105 or TCST 106; TEDU 108 or permission of the department chairperson.</td>
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<td>Course Description</td>
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<tr>
<td>80</td>
<td>TDPT</td>
<td>360</td>
<td>Industrial Safety and Health</td>
<td>200010</td>
<td>Study of the practices used to establish a safe and healthful environment for industrial personnel. Includes the requirements of safety- and health-regulating agencies, and hazard recognition and correction.</td>
</tr>
<tr>
<td>81</td>
<td>TEDU</td>
<td>304</td>
<td>Transportation Systems</td>
<td>200810</td>
<td>Studies transportation technology as it is applied to vehicular and support systems for moving people and cargo in various environments. The effects of transportation technology on individuals, society, and the environment are introduced and explored. Includes laboratory activities. Prerequisite: TEDU 102, 108 or permission of the department chairperson.</td>
</tr>
<tr>
<td>82</td>
<td>TEDU</td>
<td>305</td>
<td>Technological Systems</td>
<td>201310</td>
<td>The study of technological systems involving communication, production, transportation, and bio-technologies. Classroom and laboratory experiences examine the nature of modern systems.</td>
</tr>
<tr>
<td>83</td>
<td>Graduate courses</td>
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<tr>
<td>84</td>
<td>TEDU</td>
<td>510</td>
<td>Technology Use &amp; Assessment</td>
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<tr>
<td>85</td>
<td>TCOM</td>
<td>601</td>
<td>Digital Storytelling 1</td>
<td>200610</td>
<td>Presents the nature of graduate education, including purpose of scholarly activity and the scholarly environment. Explores the storytelling process from concept development to presentation; the history of storytelling; the societal impact and value of storytelling; and the influence of technology on the storytelling process. Prerequisite: permission of the program coordinator.</td>
</tr>
<tr>
<td>86</td>
<td>TEDU</td>
<td>510</td>
<td>Technology: Use and Assessment</td>
<td>200710</td>
<td>Analyzes the use and assessment of technology. Topics include usability testing, user surveying, technology assessment techniques, environmental impact assessment, and forecasting.</td>
</tr>
<tr>
<td>87</td>
<td>TEDU</td>
<td>636</td>
<td>Implementing Communication TE</td>
<td>198810</td>
<td>A study of the concepts and strategies used in teaching communication technology classes (grades 6-12). Emphasizes graphic, electrical, visual, acoustic, and mass-communication systems and their effects on people and society.</td>
</tr>
<tr>
<td>88</td>
<td>TEDU</td>
<td>638</td>
<td>Implementing Mfg TE</td>
<td>198810</td>
<td>A study of the concepts and strategies used in teaching manufacturing technology classes (grades 6-12). Emphasizes industrial materials, processes, and management systems; their application to industrial enterprises; and their effects on people and society.</td>
</tr>
<tr>
<td>89</td>
<td>TEDU</td>
<td>639</td>
<td>Implementing Transportation TE</td>
<td>198810</td>
<td>A study of the concepts and strategies used in teaching transportation technology classes (grades 6-12). Emphasizes the design, use, and effects of transportation systems and related energy-conversion techniques in modern society.</td>
</tr>
<tr>
<td>90</td>
<td>TMFG</td>
<td>560</td>
<td>Occupational Safety and Health</td>
<td>200710</td>
<td>Study of the practices used to ensure a safe and healthy environment for industrial and educational sectors. Examines hazard recognition and correction and the impact of safety and health regulating agencies.</td>
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<td>92</td>
<td>College of Architecture and Planning</td>
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<td>93</td>
<td>Undergraduate courses</td>
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<tr>
<td>94</td>
<td>CAP</td>
<td>101</td>
<td>Environment Design and Plan 1</td>
<td>198810</td>
<td>Basic problem solving related to abstract and historical and contemporary problems in environmental design. Elements of space, form, function, and human use as they affect the natural and built environments.</td>
</tr>
<tr>
<td>95</td>
<td>CAP</td>
<td>102</td>
<td>Environment Design and Plan 2</td>
<td>198810</td>
<td>Basic problem solving related to abstract and historical and contemporary problems in environmental design. Elements of space, form, function, and human use as they affect the natural and built environments. Prerequisite: CAP 101.</td>
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<td><strong>Course Description</strong></td>
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<tr>
<td>96</td>
<td>CAP</td>
<td>198 Intro Arch, LA, Urb Plan</td>
<td>201210</td>
<td>A two-week workshop in environmental design and planning including lectures, field trips, and hands-on studio experience. Offered credit/no credit only. Open only to high school juniors enrolled in the College Summer Program.</td>
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</tr>
<tr>
<td>97</td>
<td>Graduate courses</td>
<td>CAP</td>
<td>S05 Context for Design and Plan</td>
<td>199910</td>
<td>An intensive immersion introducing principles and introductory skills necessary to the design and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and concepts, and opportunities for interdisciplinary studies. Prerequisite: permission of the instructor.</td>
</tr>
<tr>
<td>98</td>
<td>UD</td>
<td>S02 UD Studio 2: Urban Mobility</td>
<td>201310</td>
<td>Studio/project-based study of contemporary multimodal urban mobility systems. The interrelationship of pedestrian, as well as vehicular traffic systems and their impact on urban design and development are highlighted through complex urban design projects. Programming as well as implementation of contemporary mobility systems will be explored through research analysis and the study of implementation strategies. Prerequisite: permission of the MUD program coordinator. A total of 4 hours of credit may be earned, but no more than 2 in any one semester or term. Open only to College of Architecture and Planning students.</td>
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<tr>
<td>99</td>
<td>Department of Architecture</td>
<td>Undergraduate courses</td>
<td>ARCH</td>
<td>103 Architectural Design Studio</td>
<td>200930</td>
</tr>
<tr>
<td>100</td>
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<td>ARCH</td>
<td>202 Architectural Design Studio</td>
<td>200930</td>
<td>Conceptual architectural design and design methodologies in large-scale projects; introduction of architectural technology, research, analysis, and programming. Workshops in the exploration and development of visualization and communication skills at all stages of the design process.</td>
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<tr>
<td>101</td>
<td></td>
<td>ARCH</td>
<td>203 Arch Design Studio</td>
<td>200930</td>
<td>Design projects of moderate scale and complexity consider tectonic issues, enclosure, territory and movement paths. Projects address concepts of space and place in the context of a variety of building types, ordering systems, and theories. Continued development of digital and manual visualization methods. Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>102</td>
<td></td>
<td>ARCH</td>
<td>214 Methods and Materials</td>
<td></td>
<td>Methods and materials of architectural construction. Emphasizes interface of material selections and construction technology in the design, production and construction process.</td>
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<tr>
<td>ARCH 229</td>
<td>Western Architecture</td>
<td>107</td>
<td>A survey of the major movements in Western architecture and urbanism from antiquity through the nineteenth century and an introduction to developments in vernacular and high-style architecture outside the West in pre-colonial and/or post-colonial periods.</td>
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<tr>
<td>ARCH 273</td>
<td>Environmental Systems 1</td>
<td>108</td>
<td>Introduction to environmental systems in architecture with emphasis on passive interventions.</td>
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<tr>
<td>ARCH 301</td>
<td>Architectural Design</td>
<td>109</td>
<td>Integration of all facets of design including design, research, programming, technology, function, human behavior, scheduling, time management, communication, use of materials, and systems. Workshops in the further exploration and development of visualization and communication skills at all stages of the design process. Prerequisite: ARCH 202.</td>
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<tr>
<td>ARCH 302</td>
<td>Architectural Design</td>
<td>110</td>
<td>A rigorous in-depth exploration of a selected topic in architectural design. Design studio and seminar in theories and principles related to selected topic.</td>
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<tr>
<td>ARCH 304</td>
<td>Architectural Design Studio</td>
<td>111</td>
<td>Design of increasingly complex projects with documentation of structure, materials, construction methods, and life safety. Continued emphasis on concept development vis-a-vis historical and contemporary architectural thought and project context in all its dimensions. Reinforcement and application of sustainability principles including passive/active systems and day-lighting. Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>ARCH 329</td>
<td>Survey</td>
<td>112</td>
<td>Survey of the movements and major figures in architecture and design from the late nineteenth century to the present with consideration given to the social and cultural context of design ideas.</td>
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<tr>
<td>ARCH 373</td>
<td>Environmental Systems 2</td>
<td>113</td>
<td>Application of the principles of physics to the design and engineering of environmental systems in buildings and technologies of active intervention. Prerequisite: ARCH 273.</td>
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<tr>
<td>ARCH 401</td>
<td>Capstone</td>
<td>114</td>
<td>Capstone project: a design-based study in-depth requiring students to reflect on and synthesize previous course work.</td>
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<tr>
<td>ARCH 402</td>
<td>Self study</td>
<td>115</td>
<td>Allows students to engage in architectural design projects on or off campus providing students a high degree of self-direction.</td>
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<tr>
<td>ARCH 405</td>
<td>Self study</td>
<td>116</td>
<td>Incremental version of ARCH 402 that allow students to engage architectural design projects on or off campus providing students a high degree of self-direction.</td>
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<tr>
<td>ARCH 406</td>
<td>Self study</td>
<td>117</td>
<td>Incremental version of ARCH 402 that allow students to engage architectural design projects on or off campus providing students a high degree of self-direction.</td>
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<tr>
<td>ARCH 428</td>
<td>American Architecture</td>
<td>118</td>
<td>American architecture and urbanism from its colonial beginnings to the present. Emphasizes European antecedents, transformation by American conditions and the rise of distinctly American architecture.</td>
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<tr>
<td>ARCH 440</td>
<td>History of Preservation</td>
<td>119</td>
<td>Survey of history and philosophy of preservation in the United States and Europe. Emphasizes the origins of current philosophies and approaches to preservation in the United States and the variety of organizations and agencies involved in preservation.</td>
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<td>120</td>
<td>ARCH 441 Preservation Legislation</td>
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<td>Survey of fundamental legislation in the preservation field at federal, state, and local levels. Emphasizes applying knowledge of laws and regulations to actual situations in practice. Survey of types of preservation planning used by federal, state and local governments.</td>
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<tr>
<td>121</td>
<td>ARCH 444 Historic Preservation Econ 201210</td>
<td>Developing skills in assessing the economics of preserving historic properties. Emphasizes exercises involving feasibility studies, pro formas, revolving funds, and identification of feasible users. Surveys also Main Street program and heritage tourism and heritage areas as revitalization techniques. Prerequisite: permission of the program director.</td>
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<tr>
<td>122</td>
<td>ARCH 447 Hist Pres Tech 1 201210</td>
<td>Survey of the materials and systems of construction used in historic buildings and the causes of deterioration, obsolescence, and failure in buildings. Emphasizes developing diagnostic skills through field investigations and laboratory analysis and exercises. Prerequisite: permission of the program director.</td>
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<tr>
<td>123</td>
<td>ARCH 449 Rehab of Historic Bldgs.</td>
<td>Survey of the methods and philosophies of conservation and rehabilitation for historic buildings. Emphasizes identifying appropriate solutions to problems of deterioration and appropriate rehabilitation and restoration approaches.</td>
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<tr>
<td>124</td>
<td>ARCH 473 HP Colloquium 201210</td>
<td>Seminar investigates how we have come to understand and value the past, scrutinizing disparate forms of preservation: environmental protection, building restoration, monuments and memorials, and ancestor worship, to foster an understanding of the sociocultural and historical complexities of preservation and concepts of history as they inform contemporary historic preservation work. Prerequisite: permission of the program director.</td>
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<tr>
<td>125</td>
<td>ARCH 498</td>
<td>Course if open for students to pursue on and off campus projects.</td>
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<td>127</td>
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<td>Graduate courses</td>
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<tr>
<td>128</td>
<td>ARCH 500 Architectural Design Studio 201510</td>
<td>A capstone project that continues a rigorous emphasis on all aspects of sustainability. This in-depth design study requires synthesis of previous course work. Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>129</td>
<td>ARCH 501 Architectural Design Studio</td>
<td>Graduate architecture studio involves work that is comprehensive in its conception, development and execution.</td>
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<tr>
<td>130</td>
<td>ARCH 506 HP Studio 201210</td>
<td>Selected problems and issues in historic preservation at all scales in an applied context. Opportunity to implement concepts learned in a creative environment. Field trips to project sites. Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.</td>
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<tr>
<td>131</td>
<td>ARCH 528 American architecture</td>
<td>American architecture and urbanism from its colonial beginnings to the present. Emphasizes European antecedents, transformation by American conditions, and the rise of distinctly American architecture.</td>
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<tr>
<td>132</td>
<td>ARCH 530 Arch in the Midwest</td>
<td>Analysis of the development of architecture, planning, engineering (canals, railroads, roads, bridges) and industrial architecture in the American Midwest from the frontier period through the twentieth century.</td>
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<tr>
<td>133</td>
<td>ARCH 540 Preservation in the US</td>
<td>Survey of history and philosophy of preservation in the United States and Europe. Emphasizes origins of current philosophies and approaches to preservation in the United States and the variety of organizations and agencies involved.</td>
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<td>ARCH 541</td>
<td>Preservation Legislation</td>
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<td>Survey of fundamental legislation in the preservation field at federal, state and local levels. Emphasizes applying knowledge of laws and regulations to actual situations in practice.</td>
</tr>
<tr>
<td>134</td>
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<td>ARCH 544</td>
<td>Historic Preservation Econ</td>
<td>201210</td>
<td>Developing skills in assessing the economics of preserving historic properties. Emphasizes exercises involving feasibility studies, pro formas, revolving funds, and identification of feasible users. Surveys also Main Street program and heritage tourism and heritage areas as revitalization techniques. Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director; ARCH 540. Not open to students who have credit in ARCH 444 or equivalent.</td>
</tr>
<tr>
<td>135</td>
<td></td>
<td>ARCH 547</td>
<td>Hist Pres Tech 1</td>
<td>201210</td>
<td>Survey of the materials and systems of construction used in historic buildings and the causes of deterioration, obsolescence, and failure in buildings. Emphasizes developing diagnostic skills through field investigations and laboratory analysis and exercises. Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director. Not open to students who have credit in ARCH 447 or equivalent.</td>
</tr>
<tr>
<td>136</td>
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<td>ARCH 555</td>
<td>Immersive away experience outside of the College consisting of a (14 week) professional internship or approved alternative.</td>
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<td>137</td>
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<td>ARCH 573</td>
<td>HP Colloq</td>
<td>201210</td>
<td>Seminar investigates how we have come to understand and value the past, scrutinizing disparate forms of preservation: environmental protection, building restoration, monuments and memorials, and ancestor worship, to foster an understanding of the sociocultural and historical complexities of preservation and concepts of history as they inform contemporary historic preservation work. Prerequisite: graduate status in the College of Architecture and Planning or permission of the program director.</td>
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<tr>
<td>138</td>
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<td>ARCH 590</td>
<td>Independent Study</td>
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<td>139</td>
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<td>ARCH 598</td>
<td>Special Projects</td>
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<td>140</td>
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<td>ARCH 601</td>
<td>Architectural Design Studio</td>
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<td>Graduate architecture studio involves topical architecture problems.</td>
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<tr>
<td>141</td>
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<td>ARCH 602</td>
<td>Architectural Design Studio</td>
<td></td>
<td>Development and completion of a student-initiated and defined architectural design project.</td>
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<td>142</td>
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<td>ARCH 603</td>
<td>Architectural Design Studio</td>
<td></td>
<td>Provides students the opportunity to define, investigate and articulate a topic for the final project</td>
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<tr>
<td>143</td>
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<td>ARCH 630</td>
<td>Fund of Hist Pres</td>
<td>200930</td>
<td>Introduces the special qualities of historic properties and the importance of such properties in providing a varied and interesting architectural character to communities and rural areas. Emphasizes skills in documenting historic properties and in developing familiarity with criteria and standards for identifying such properties and rehabilitating them appropriately. The economics of historic preservation, preservation law, and Section 106 reviews are also investigated. Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>144</td>
<td></td>
<td>ARCH 631</td>
<td>Life Safety</td>
<td>200930</td>
<td>Survey of topics relevant to life safety, encompassing wind, fire, ground motions, environmental conditions (including noise and criminal activity), home accidents, and matters pertaining to the Occupational Safety and Health Act (OSHA). Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>146</td>
<td>ARCH</td>
<td>640 History, Theory, and Criticism</td>
<td>200930</td>
<td>Examines contemporary architectural theory and criticism through the presentation and study of significant texts and buildings of the present and recent past. Introduces and investigates the formal, technological, social and cultural, political, and economic issues within the disciplines of architecture and design. Explores interactions between theory and practice, and examines strategies for the making of architecture. Prerequisite: graduate standing or permission of the program director.</td>
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<tr>
<td>147</td>
<td>ARCH</td>
<td>642</td>
<td></td>
<td>Examines contemporary architectural theory, criticism and practice through the presentation and study of significant texts and built form.</td>
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<tr>
<td>149</td>
<td>Department of Landscape Architecture</td>
<td></td>
<td>Undergraduate courses</td>
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<tr>
<td>150</td>
<td>LA</td>
<td>100 Intro Landscape Architecture</td>
<td>198910</td>
<td>An introduction to landscape architecture: lectures, site observations, and environmental experiences that focus on landscape architectural practice, representative projects, philosophy, and areas of specialization within the field.</td>
<td></td>
</tr>
<tr>
<td>151</td>
<td>LA</td>
<td>201</td>
<td></td>
<td>Application of basic design principles, programming, and analysis to small-scale, site-specific landscape design problems. Visual and functional design principles as they relate to natural and cultural influences in landscape design.</td>
<td></td>
</tr>
<tr>
<td>152</td>
<td>LA</td>
<td>202</td>
<td></td>
<td>Design projects emphasizing park design, park and recreational master planning and open-space design in rural, suburban and urban settings.</td>
<td></td>
</tr>
<tr>
<td>153</td>
<td>LA</td>
<td>214</td>
<td></td>
<td>On-site studies of landscape architectural projects and practices, natural areas and historic sites and landscapes.</td>
<td></td>
</tr>
<tr>
<td>154</td>
<td>LA</td>
<td>215</td>
<td></td>
<td>Group field studies of landscape architectural projects and practices, natural areas and historic sites and landscapes.</td>
<td></td>
</tr>
<tr>
<td>155</td>
<td>LA</td>
<td>220 LA History 1</td>
<td>198910</td>
<td>The history of landscape architecture from ancient times to 1800. Examples of landscape expressions of the human-environment relationship resulting in the conscious shaping of urban and rural landscapes, and the creation of such landscapes as parks, gardens, and urban plazas.</td>
<td></td>
</tr>
<tr>
<td>156</td>
<td>LA</td>
<td>221 LA History 2</td>
<td>201310</td>
<td>The history of landscape architecture from 1800 to the present. Emphasizes the North American human-environment relationship, its relationship to European antecedents, and other cultural parallels in landscape design.</td>
<td></td>
</tr>
<tr>
<td>157</td>
<td>LA</td>
<td>270 Environmental Systems</td>
<td>198910</td>
<td>Qualitative investigations and analysis of landscape systems. Studies include the assessment of vegetation, climate, hydrology, soils, and subsurface geology as determinants of landscape architectural form; natural processes as they relate to the principles of landscape architectural construction.</td>
<td></td>
</tr>
<tr>
<td>158</td>
<td>LA</td>
<td>310</td>
<td></td>
<td>Experiential service learning design/build projects in landscape architecture.</td>
<td></td>
</tr>
<tr>
<td>159</td>
<td>LA</td>
<td>312</td>
<td></td>
<td>Principles and practices of landscape architecture engineering and construction emphasizing landscape materials, structures, planting and fabrication techniques, includes design implementation techniques and construction documents.</td>
<td></td>
</tr>
<tr>
<td>160</td>
<td>LA</td>
<td>341 Plants 1</td>
<td>199810</td>
<td>The study of woody and herbaceous plants, including plant identification and plant adaptation to urban and natural environmental conditions.</td>
<td></td>
</tr>
<tr>
<td>161</td>
<td>LA</td>
<td>342</td>
<td></td>
<td>The study of herbaceous landscape plants including plant identification and plant adaptation to urban and natural environmental conditions.</td>
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<tr>
<td>LA</td>
<td>401</td>
<td></td>
<td></td>
<td>The application of principles of landscape architectural design to large-scale landscape settings. Topics include land planning, visual quality management, and natural and cultural landscape resource management.</td>
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<tr>
<td>LA</td>
<td>403</td>
<td>Urban Design</td>
<td>201310</td>
<td>Design studio emphasizing the physical and socio-behavioral influences on the design of cities. Projects may focus on the design of new urban environments or the redesign and revitalization of existing urban centers. May include interdisciplinary studies. Prerequisite: LA 312 or 401 or permission of the instructor. Open only to LA majors.</td>
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<tr>
<td>LA</td>
<td>406</td>
<td></td>
<td></td>
<td>Design Studio emphasizing special or unique topics in landscape architecture.</td>
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<tr>
<td>LA</td>
<td>414</td>
<td>LA Engineering 4</td>
<td>201310</td>
<td>Advanced methods of landscape architecture engineering and construction/implementation practices. Subjects include advanced applications for construction documentation, Building/Site/Land Information modeling (e.g., BIM); documented sustainable design criteria/guidelines/techniques (e.g., SITES); landscape construction management; and post construction evaluation. Course topics may include advanced sustainable site construction and landscape engineering applications for lighting, water, material selection, and landscape management. Prerequisite: LA 312 or permission of the instructor. Open only to LA majors.</td>
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<tr>
<td>LA</td>
<td>420</td>
<td></td>
<td></td>
<td>Survey of the history, theory and methodologies of historic landscape preservation. Includes topics in both vernacular and designed historic landscape preservation, primarily in North America.</td>
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<tr>
<td>LA</td>
<td>430</td>
<td>Philosophy of Land Arch</td>
<td>198910</td>
<td>Readings, seminars, and lectures in the background and development of historic and contemporary philosophies of landscape architecture. Includes discussions of design and environmental issues, land use, and professional ethics. Prerequisite: LA 221 or permission of the instructor.</td>
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<tr>
<td>LA</td>
<td>451</td>
<td></td>
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<td>Methods, procedures and case studies of landscape architectural research. Includes guided development of an individual research program and proposal leading to the landscape architecture comprehensive project.</td>
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<tr>
<td>LA</td>
<td>460</td>
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<td></td>
<td>Methods and practices of the profession of landscape architecture. Subjects include business and governmental organization, elements of contract law, business management, marketing, professional licensure and ethics.</td>
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<tr>
<td>LA</td>
<td>490</td>
<td>Independent Projects</td>
<td>198910</td>
<td>An independent study in environmental topics. Prerequisite: approval of the program proposal by a faculty advisor, the professor responsible for study assessment, and the department chairperson. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<tr>
<td>LA</td>
<td>498</td>
<td>Special Projects</td>
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<td>Graduate Courses</td>
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<tr>
<td>LA</td>
<td>500</td>
<td>Context for Land Arch</td>
<td>200310</td>
<td>An intensive immersion introducing principles and introductory skills necessary to the design and planning of the environment. May include field study, historical case studies, philosophical issues, overview of professional practice skills, technology, vocabulary and concepts, and opportunities for interdisciplinary studies. Prerequisite: permission of the department chairperson.</td>
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<td>LA</td>
<td>525</td>
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<td></td>
<td>Theory, concepts, methods and case studies in historic design and cultural landscape preservation.</td>
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<tr>
<td>LA</td>
<td>573</td>
<td>Environmental Systems</td>
<td>199510</td>
<td>Qualitative investigations and analyses of and research in landscape systems. Studies include assessments of vegetation, climate, hydrology, soils, and surface geology as determinants of landscape architectural form; natural processes as they relate to the principles of landscape architectural construction.</td>
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</tr>
<tr>
<td>LA</td>
<td>590</td>
<td>Independent Projects</td>
<td>198810</td>
<td>Independent study in environmental topics relevant to landscape architecture. Prerequisite: permission of the department chairperson. A total of 9 hours of credit may be earned.</td>
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<tr>
<td>LA</td>
<td>598</td>
<td></td>
<td></td>
<td>Special and timely landscape architectural projects undertaken by a group of students</td>
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<tr>
<td>LA</td>
<td>601</td>
<td></td>
<td></td>
<td>Design projects, exercises, lectures and field studies to develop awareness of principles and concepts integrating natural and cultural elements in the landscape.</td>
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<tr>
<td>LA</td>
<td>602</td>
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<td>Continued applications of basic design principles, programming, and site analysis reinforcing design processes and visual thinking in the design of sites. Emphasizes open space planning and park design. May include projects in natural, rural and urban settings.</td>
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<tr>
<td>LA</td>
<td>603</td>
<td></td>
<td></td>
<td>Continued application of principles of landscape architecture to community and neighborhood-scale projects of increasing complexity, including housing, commercial and urban land planning and development issues. Additional issues addressed include human behavioral principles and planting design concepts as they relate to landscape architectural spaces.</td>
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<tr>
<td>LA</td>
<td>604</td>
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<td>Staged projects progressing through regional land planning and site design scales. Includes landscape planning (manual or GIS), overlay assessments, historic and cultural landscape conservation planning and design and site design applications.</td>
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<tr>
<td>LA</td>
<td>605</td>
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<td>Faculty-directed landscape architectural planning and design problems and projects at an advanced level.</td>
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<tr>
<td>LA</td>
<td>645</td>
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<td>Use of plants as landscape-design elements; related specifications and detailing</td>
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<tr>
<td>LA</td>
<td>650</td>
<td></td>
<td></td>
<td>Theories and methods related to landscape planning, preservation and design</td>
<td>I</td>
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<tr>
<td>LA</td>
<td>651</td>
<td></td>
<td></td>
<td>Focus is on critical issues and the framing of meaningful questions appropriate to the discipline and profession of landscape architecture. Emphasis on basic and/or applied research skills; and preparation of research study report or proposal</td>
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<tr>
<td>LA</td>
<td>653</td>
<td></td>
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<td>Directed and selected readings and written reports to broaden perspective in landscape architecture</td>
<td>I</td>
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<tr>
<td>LA</td>
<td>661</td>
<td>Design Studio</td>
<td></td>
<td>Theory and application in design communication, including free-hand and technical drawing and presentation skills.</td>
<td>I</td>
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<tr>
<td>LA</td>
<td>690</td>
<td>Independent Projects</td>
<td>198910</td>
<td>Independent study in environmental topics relevant to landscape architecture. Prerequisite: permission of the department chairperson. A total of 9 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<tr>
<td>LA</td>
<td>698</td>
<td>Special Projects</td>
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<td>Special and timely landscape architectural projects undertaken by a group of students</td>
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<td><strong>192</strong></td>
<td><strong>193</strong></td>
<td><strong>194</strong></td>
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<tr>
<td>Department of Urban Planning</td>
<td>100 Intro to Urban Planning</td>
<td></td>
<td><strong>201510</strong></td>
<td>Introduces students to the planning skills needed to help influence the direction and growth of communities and to help neighborhoods, cities, and rural areas strike a balance between development, the provision of essential services, and environmental protection. Offered online only to high school students. Not open to students who have credit in PLAN 100.</td>
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</tr>
<tr>
<td>Undergraduate courses</td>
<td><strong>196</strong> Site Analysis and Design Princ.</td>
<td></td>
<td><strong>197</strong></td>
<td><strong>198</strong></td>
<td></td>
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<tr>
<td>PLAN</td>
<td>101</td>
<td>Introduction to Planning</td>
<td></td>
<td></td>
<td>Evolution theories and practice of urban planning, emphasizing the United States before 1940.</td>
</tr>
<tr>
<td></td>
<td><strong>199</strong></td>
<td>Private-sector Land Devel</td>
<td></td>
<td></td>
<td>The process of private-sector land development, including market analysis and site selection, physical design, financing, legal constraints, and assembly of the development package.</td>
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<td><strong>200</strong></td>
<td>Dev of graphic skills for planners</td>
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<td></td>
<td>Development of graphic and visualization skills for planners. Use of a variety of communication techniques and media for public presentation.</td>
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<td><strong>201</strong></td>
<td>Collection, Analy and Comm of Info</td>
<td></td>
<td></td>
<td>Collection, analysis, and communication of information for community- and county-scale economic development planning, including use and interpretation of published data sources, field surveys and inventories, and interviews, as well as development of comm</td>
</tr>
<tr>
<td>PLAN</td>
<td>202</td>
<td>Economic Development Studio</td>
<td></td>
<td><strong>20010</strong></td>
<td>Collection, analysis, and communication of information for community- and county-scale economic development planning, including use and interpretation of published data sources, field surveys and inventories, and interviews, as well as development of community assessment and recommendations. Prerequisite: PLAN 203.</td>
</tr>
<tr>
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<td><strong>203</strong></td>
<td>Statistics and Models in Urban Plan</td>
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<td>Calculation, application and interpretation of statistics and quantitative models used in urban planning. Topics include association, variation, probability, sampling, regression and models for population forecasting.</td>
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<td><strong>204</strong></td>
<td>Econ Dev in Planning</td>
<td></td>
<td><strong>198810</strong></td>
<td>Strategies and tools for stimulation of local economic growth including government incentives, financing alternatives, and examples of public-private partnership in strategic planning.</td>
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<td><strong>205</strong></td>
<td>Small town planning</td>
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<td></td>
<td>Analysis and application of planning skills in a real-world setting, involving an actual community or outside client. Emphasizes smaller town or rural planning issues</td>
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<td><strong>206</strong></td>
<td>Urban Design</td>
<td></td>
<td><strong>200010</strong></td>
<td>An exploration of the physical form of the public realm and how it has been shaped by social, economic, political, and cultural forces. Special attention will be paid to issues of identity, sense of place, placemaking, and sense of belonging.</td>
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<tr>
<td>PLAN</td>
<td>412</td>
<td>Intro to GIS for Urbn Plan</td>
<td>199210</td>
<td>Designed to introduce principles of GIS and GIS applications in an urban environment. Topics include GIS components, modeling methodology, and management of environments. Implications for urban and environmental policy development.</td>
<td></td>
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<tr>
<td>PLAN</td>
<td>413</td>
<td>Adv Conc in GIS for Urbn Plan</td>
<td>199210</td>
<td>Advanced topics in modeling and analysis of urban and regional environments. Techniques for database organization, database development, and analytical processes (algorithm development). Prerequisite: PLAN 412.</td>
<td></td>
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<tr>
<td>PLAN</td>
<td>421</td>
<td>Urban Land-use Planning</td>
<td>200210</td>
<td>Principles of urban land-use planning for newly developing areas and for changing older communities. Attention to environmental, efficiency, and aesthetic concerns in urban growth. Preparation of the comprehensive urban land-use plan.</td>
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<tr>
<td>PLAN</td>
<td>428</td>
<td>Urban Impact Analysis</td>
<td>198810</td>
<td>Techniques for estimating the environmental, socioeconomic, fiscal, and energy effects of proposed plans and development projects.</td>
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<tr>
<td>PLAN</td>
<td>431</td>
<td>Urban Transportation Planning</td>
<td>198810</td>
<td>Transportation planning methods and policy, including analysis of travel demand, links between land use and transportation, choice of transportation modes, and design of balanced transportation systems.</td>
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<tr>
<td>PLAN</td>
<td>439</td>
<td>Community Facilities Planning</td>
<td>198810</td>
<td>Design principles and economic conditions in planning for urban physical facilities, including recreation facilities, streets, sidewalks, drainage, water supply systems, sewerage, waste treatment, and others.</td>
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<tr>
<td>PLAN</td>
<td>452</td>
<td>Legal Tools for Plan Implementation</td>
<td></td>
<td>Legal tools for plan implementation, including zoning, subdivision regulations, planned unit-development regulations and other techniques for guiding urban development while balancing community interests and private property rights.</td>
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<tr>
<td>PLAN</td>
<td>465</td>
<td>Origins of Comm Deve.</td>
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<td>A participatory lecture course that looks at the origins of community development in urban neighborhoods throughout the United States. Examines the influences of the civil rights movement, housing policies and community activists who shaped the movement. Additionally, looks at the role of religious institutions in urban communities and current issues surrounding faith-based community development.</td>
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<tr>
<td>PLAN</td>
<td>481</td>
<td>Qualitative methods/techniques</td>
<td></td>
<td>Issues and qualitative methods/techniques useful to the planner's paramount responsibility: understanding/integrating local knowledge and values into the public decision-making process. Issues and theories of public participation. Methods and skill techniques of being informed by the public, of informing the public and of advancing planner/constituency collaboration.</td>
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<tr>
<td>PLAN</td>
<td>484</td>
<td>Visual Modeling</td>
<td>200610</td>
<td>Graphic design representation and presentation techniques. Introduction to &quot;data mining&quot; and computer-based applications in remote sensing, mapping, perspective drawing, and database graphics. Visual urban simulation using advanced digital applications, such as GIS. Introduction to terrain engines, VRML, and other rendering environments for the display of urban design alternatives.</td>
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<tr>
<td>PLAN</td>
<td>490</td>
<td>Ind. Study</td>
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<td>Independent study in urban planning and development topics undertaken on an individual basis with guidance of a faculty member.</td>
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<td>Graduate courses</td>
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<tr>
<td>PLAN 501</td>
<td>Intro to contemp. Plann</td>
<td>200110</td>
<td>Introduces the principles, practices and theory of contemporary urban planning. The community planning process and the substantive areas of planning practice are discussed. Students will be provided with the skills needed for preparation and implementation of a community's comprehensive plan.</td>
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<tr>
<td>PLAN 504</td>
<td>Urban Design</td>
<td>200110</td>
<td>An exploration of the physical form of the public realm and how it has been shaped by social, economic, political, and cultural forces. Special attention will be paid to issues of identity, sense of place, placemaking, and sense of belonging.</td>
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<td>PLAN 506</td>
<td>Environmental Design Studio</td>
<td>198810</td>
<td>An interdisciplinary approach to the resolution of problems in environmental design. Appropriate projects to be determined in consultation between the students and faculty.</td>
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<tr>
<td>PLAN 512</td>
<td>Intro to GIS for Urban Plan</td>
<td>199210</td>
<td>Designed to introduce principles of GIS and GIS applications in an urban environment. Topics include GIS components, modeling methodology, and management of environments. Implications to urban and environmental policy development.</td>
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<tr>
<td>PLAN 513</td>
<td>Adv Conc in GIS for Urbn Plan</td>
<td>199210</td>
<td>Advanced topics in modeling and analysis of urban and regional environments. Techniques for database organization, database development, and analytical processes (algorithm development). Prerequisite: PLAN 512.</td>
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<tr>
<td>PLAN 521</td>
<td>Urban Land-use Planning</td>
<td>200310</td>
<td>Planning the uses of land in urban areas. Land-use determinants, standards at the community level, information systems, preparation of land-use plans, and development of land-use control policies at the urban and county levels.</td>
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<tr>
<td>PLAN 531</td>
<td>Urban Transportation Planning</td>
<td>198810</td>
<td>Transportation planning methods and policy, including analysis of travel demand, links between land use and transportation, choice of transportation modes, and design of balanced transportation systems.</td>
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<tr>
<td>PLAN 534</td>
<td>Regional Development Planning</td>
<td>198810</td>
<td>Seminar in techniques of regional planning analysis and policy formulation. Methods of integration of economic, ecological, and social objectives in regional development.</td>
<td></td>
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<tr>
<td>PLAN 538</td>
<td>Regional Land-use Planning</td>
<td>198810</td>
<td>Planning the uses of land at the regional, area, and state levels; interface between social, environmental, and land-use plans at the regional level; and land-use policies for critical-area management including the coastal zone.</td>
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<tr>
<td>PLAN 539</td>
<td>Public Facilities Planning</td>
<td>198810</td>
<td>An introduction to the planning of public facilities systems including street and highway systems, water systems, wastewater, and solid waste management.</td>
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<tr>
<td>PLAN 577</td>
<td>History of Urban Form</td>
<td>200110</td>
<td>An examination of the historical transformation of the urban form and its elements. Focuses on the physical organization of the city in relation to social, economic, political, and cultural forces that have shaped it. Special attention will also be paid to non-Western urban forms and histories.</td>
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<tr>
<td>PLAN 583</td>
<td>Site Analysis and Planning</td>
<td>200410</td>
<td>Range of practical approaches in evaluating and planning sites within the contexts of natural, economic, and cultural systems. Site inventory, analysis, and planning. Introduction of computerized platforms, integrating digital and physical representations to enhance planning and communication with the public. Required core course in the physical planning area of concentrated study (ACS).</td>
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<td>Course Description</td>
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<tr>
<td>231</td>
<td>PLAN</td>
<td>584</td>
<td>Visual Modeling</td>
<td>200410</td>
<td>Graphic design representation and presentation techniques. Introduction to &quot;data mining&quot; and computer-based applications in remote sensing, mapping, perspective drawing, and database graphics. Visual urban simulation using advanced digital applications, such as GIS. Introduction to terrain engines, VRML, and other rendering environments for the display of urban planning alternatives.</td>
</tr>
<tr>
<td>232</td>
<td>PLAN</td>
<td>585</td>
<td>Intro Comm Dev and Enter Ping</td>
<td>200410</td>
<td>Historical/comparative review of the real estate/community development practices, and emergence of enterprise planning. Development process attendant to each of the three economic sectors and to contrasting venues of economically/politically impacted areas ranging from inner cities to rural towns seeking revival. Methods of formulating action plans.</td>
</tr>
<tr>
<td>233</td>
<td>PLAN</td>
<td>581</td>
<td>Public Participation</td>
<td></td>
<td>Issues and qualitative methods/techniques useful to the planner’s paramount responsibility: understanding/integrating local knowledge and values into the public decision-making process. Issues and theories of public participation. Methods and skill techniques of being informed by the public, of informing the public and of advancing.</td>
</tr>
<tr>
<td>234</td>
<td>PLAN</td>
<td>586</td>
<td>Methods of Public Interest Dev</td>
<td>200410</td>
<td>From an enterprise planning perspective, the rationale and methods of development. Finance: proforma, break-even cash flow, equity investment, lender underwriting, and gap financing analyses; public-private partnerships incorporating range of development inducements. Strategies for creating markets given disinvestment pattern. Managing community development organization and projects through development process.</td>
</tr>
<tr>
<td>235</td>
<td>PLAN</td>
<td>590</td>
<td>Ind. Study</td>
<td></td>
<td>Relevant research or a project under the direction of the planning faculty.</td>
</tr>
<tr>
<td>236</td>
<td>PLAN</td>
<td>598</td>
<td>Looking at Cities</td>
<td></td>
<td>To read and understand urban environments. To interpret the evidence of change. To reflect on past educational experience and future professional role as an environmental designer.</td>
</tr>
<tr>
<td>237</td>
<td>PLAN</td>
<td>604</td>
<td>Seminar</td>
<td></td>
<td>Advanced seminar to explore the application of planning theory to planning practice and management. Issues of planning ethics, roles, styles, and strategies, including citizen participation, for effective plan making and implementation</td>
</tr>
<tr>
<td>238</td>
<td>PLAN</td>
<td>605</td>
<td>Graphic Tech</td>
<td></td>
<td>Introduction to graphic techniques and design processes. Lecture and studio exercises on problem solving and public presentation of findings.</td>
</tr>
<tr>
<td>239</td>
<td>PLAN</td>
<td>610</td>
<td>Planning Analysis Studio</td>
<td>199910</td>
<td>Analysis and design principles at regional, urban, and local scale, including environmental suitability, land-use location criteria, and site- planning criteria for Greenfield or redevelopment sites. Students defend proposals based on analytical and design criteria. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<tr>
<td>240</td>
<td>PLAN</td>
<td>618</td>
<td>Advanced Inferential Statistics</td>
<td></td>
<td>Advanced inferential statistics; correlation and regression analysis progressing from linear and bivariate to quadratic and multivariate models; introductory Boolean algebra. Data reduction techniques of factor analysis and Q‐methodology. Classification of cluster analysis.</td>
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<tr>
<td>241</td>
<td>PLAN</td>
<td>619</td>
<td>Urban Spatial Analysis</td>
<td></td>
<td>Quantitative modeling of urban spatial analysis (analysis and forecasting of uses and forms); land use and transportation forecasting; public facility, basic sector, residential distribution and retail/local service sector modeling; and trip generation and distribution modeling.</td>
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<td>Term/Effect</td>
<td>Course Description</td>
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<tr>
<td>242</td>
<td>PLAN</td>
<td>621</td>
<td>Environmental Impact Analysis</td>
<td>201410</td>
<td>Techniques for assessing environmental impacts, including environmental inventory, rapid assessment, environmental impact analysis, land suitability analysis, risk assessment, build-out analysis, modeling for environmental sustainability, and the review of environmental regulations at all levels of government.</td>
</tr>
<tr>
<td>243</td>
<td>PLAN</td>
<td>625</td>
<td>Historical Jurisprudential Analysis</td>
<td>200410</td>
<td>Historical jurisprudential analysis of planning/land-use law within public agencies and the private sector of development. Zoning, subdivision, and other land use regulations. A study of the legislative, regulatory, and administrative law adjudicatory process within the context of planning and land use as well as comparisons of selective states and localities' processes.</td>
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<tr>
<td>244</td>
<td>PLAN</td>
<td>626</td>
<td>Human Settlements</td>
<td>200410</td>
<td>Analytical and comparative history of urban form by way of its human, economic, and cultural influences. Elementary and essential principles of urban design.</td>
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<tr>
<td>245</td>
<td>PLAN</td>
<td>628</td>
<td>Economics of Planning</td>
<td>200410</td>
<td>Neoclassical microeconomics applicable to analysis/evaluation of private/public development and urban form. Theories of marginal analysis, present value, and applied optimization explain urban/environmental/international economics; public choice; location theory; and development economics. Macroeconomic general equilibrium paradigm explains suboptimal resource allocations, or market failures, leading to variety of market interventions.</td>
</tr>
<tr>
<td>246</td>
<td>PLAN</td>
<td>629</td>
<td>Planning Analysis Studio</td>
<td>200410</td>
<td>Analysis and design principles at regional, urban, and local scale, including environmental suitability, land-use locational criteria, and site planning criteria for Greenfield or redevelopment sites. Students defend proposals based on analytical and design techniques. Six contact hours</td>
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<tr>
<td>247</td>
<td>PLAN</td>
<td>630</td>
<td>Planning Field Work</td>
<td>200410</td>
<td>Application of substantive skills and knowledge in a comprehensive planning exercise for an urban area, involving fieldwork and a real location. Emphasizes the process by which comprehensive planning decisions are reached.</td>
</tr>
<tr>
<td>248</td>
<td>PLAN</td>
<td>631</td>
<td>Planning Field Work</td>
<td>200410</td>
<td>Application of substantive skills and knowledge in physical planning through the creation of a site plan, utilizing fieldwork and a real location. Emphasizes the processes of site planning and analysis.</td>
</tr>
<tr>
<td>249</td>
<td>PLAN</td>
<td>632</td>
<td>Planning Field Work</td>
<td>200410</td>
<td>Application of substantive skills and knowledge in an enterprise planning exercise for an urban area, involving fieldwork and a real location. Emphasizes the processes of action plans, land development/redevelopment and community involvement.</td>
</tr>
<tr>
<td>250</td>
<td>PLAN</td>
<td>695</td>
<td>Ind. Study</td>
<td>200410</td>
<td>Problem identification; selection of topical area of interest; formulation of specific research/professional report topic and outline; and development of an annotated syllabus.</td>
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<tr>
<td>251</td>
<td>PLAN</td>
<td>696</td>
<td>Ind. Study</td>
<td>200410</td>
<td>Selection and application of research methods to topic; collection and preliminary analysis of data.</td>
</tr>
<tr>
<td>252</td>
<td>PLAN</td>
<td>697</td>
<td>Ind. Study</td>
<td>200410</td>
<td>Rigorous analysis of data and formulation of the paper/report demonstrating topic definition, research methods, preliminary conclusions and implications of the same.</td>
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Miller College of Business

Undergraduate courses
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<td>Subject CrseNo Course Short Title TermEffect Course Description</td>
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<tr>
<td>1</td>
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<td>BUSA 101 Introduction to Business 201410 Emphasizes the vital role of business in our society through a discussion of both the external environment of business and the internal environment of the business enterprise. Assesses the contribution of the social and behavioral sciences in the decision-making process. Core Transfer Library: Professional/Occupational (IPO 1810) Not open to junior or senior business majors.</td>
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<tr>
<td>256</td>
<td></td>
<td>INTB 265 Intro to International Bus 199610 Introduces the field of international business including coverage of the cultural, economic, political, and legal environments in which organizations function. Provides an overview of world markets emphasizing communications, trade, and legal matters in international relationships.</td>
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<td>257</td>
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<td><strong>Graduate courses</strong></td>
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<td>258</td>
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<td>MBA 624 Integ Enterprise Resource Plan 200510 Applications of enterprise resource planning systems in several business areas such as accounting systems, customer relationship management, operations and materials management. Utilizes a well-known ERP software system to familiarize students with these applications. Prerequisite: MBA 621 or permission; full admission to a graduate program of the university.</td>
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<td>259</td>
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<td>MBA 625 Enterprise Resource Plan Sys 200910 Focuses on business ERP systems. Topics include ERP framework and architecture, leading enterprise systems and market trends, evaluation of ERP Systems, and implementation methodologies and success factors. Students are exposed to the SAP systems. Hands-on applications and labs are included to provide practical experience for implementing SAP solutions. Prerequisite: MBA 621 or permission; full admission to a graduate program of the university.</td>
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<td>260</td>
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<td>MBA 651 Economic Analysis for Managers 200510 Apply economic principles to improve the decisions made by managers. Topics include supply and demand, marginal analysis, the impact of market structure (i.e., competitive, monopoly, and oligopoly), and the organization of the firm. Prerequisite: ECON 509; full admission to a graduate program in the Miller College of Business. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.</td>
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<td>261</td>
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<td>MBA 691 Global Strategic Management 201410 Integrative application of business knowledge to managerial decisions and action that determine the long-run performance of organizations. Deals with legal and environmental issues and strategy formulation, and implementation in a global setting. Prerequisite: completion of MBA 601 and 611 and 621 and 631 and 651; full admission to a graduate program in the Miller College of Business. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.</td>
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<td>262</td>
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<td><strong>Department of Accounting</strong></td>
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<td>265</td>
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<td><strong>Department of Economics</strong></td>
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<td>266</td>
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<td><strong>Undergraduate courses</strong></td>
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<td>Subject CrsNo Course Short Title</td>
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<tr>
<td>270</td>
<td>ECON</td>
<td>116</td>
<td>Survey of Economic Ideas</td>
<td>201410</td>
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<td>271</td>
<td>ECON</td>
<td>201</td>
<td>Elementary Microeconomics</td>
<td>198810</td>
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<td>272</td>
<td>ECON</td>
<td>202</td>
<td>Elementary Macroeconomics</td>
<td>201410</td>
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<td>273</td>
<td>ECON</td>
<td>301</td>
<td>Intermediate Microeconomics</td>
<td>198810</td>
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<td>274</td>
<td>ECON</td>
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<td>Intermediate Macroeconomics</td>
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<td>275</td>
<td>ECON</td>
<td>309</td>
<td>Amer Econ Hist 1: to Civil War</td>
<td>201010</td>
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<td>276</td>
<td>ECON</td>
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<td>Amer Econ Hist 2: 1860-1990</td>
<td>201010</td>
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<td>277</td>
<td>ECON</td>
<td>345</td>
<td>Public Finance</td>
<td>200210</td>
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<td>ECON</td>
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<td>Law and Economics</td>
<td>199410</td>
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<td>279</td>
<td>ECON</td>
<td>370</td>
<td>Industrial Organization</td>
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<td>ECON</td>
<td>381</td>
<td>Economics for Teachers</td>
<td>200810</td>
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<td>282</td>
<td>ECON</td>
<td>416</td>
<td>History of Economic Doctrines</td>
<td>198810</td>
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<td>283</td>
<td>ECON</td>
<td>424</td>
<td>Econometrics</td>
<td>201510</td>
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<td>284</td>
<td>ECON</td>
<td>441</td>
<td>The Theory of Monetary Policy</td>
<td>198810</td>
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<td>285</td>
<td>ECON</td>
<td>485</td>
<td>Urban Economics</td>
<td>198810</td>
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<td>286</td>
<td>ECON</td>
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<td>Independent Study in Economics</td>
<td>198810</td>
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<td>ECON</td>
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<td>Seminar in Economics</td>
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<td>Short Title</td>
<td>Micro- and macroeconomics for those without economics credit at the undergraduate level. Satisfies the prerequisite of courses requiring ECON 201 and 202, but is not acceptable as credit for meeting the requirements of any graduate degree in business administration. May not be used to satisfy an economics major area requirement for the master of arts in education degree. Not applicable toward credit hours required for graduate degrees in the Miller College of Business. Not open to students who have credit in ECON 201, 202.</td>
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<td>ECON</td>
<td>509</td>
<td>Survey of Economics</td>
<td>200310</td>
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<td>290</td>
<td>ECON</td>
<td>524</td>
<td>Introduction to Econometrics</td>
<td>198810 Quantitative methods in economic research. Emphasizes construction of economic models and testing of their predictive power. Topics include correlation and regression techniques and the specific problems that arise in applying these to economic data. Prerequisite: ECON 201, 202, 221; MATHS 132 or its equivalent. Not open to students who have credit in ECON 424.</td>
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<td>292</td>
<td>ECON</td>
<td>541</td>
<td>The Theory of Monetary Policy</td>
<td>199710 A theoretical presentation of how the board of governors of the Federal Reserve System modifies the economic climate within which the institutions of the nation operate and of the problems of government finance as they relate to the board’s goal of general economic stability. Prerequisite: ECON 201, 202. Not open to students who have credit in ECON 441.</td>
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<td>294</td>
<td>ECON</td>
<td>581</td>
<td>Workshop on Economic Education</td>
<td>198810 Designed to give the teacher who is not a specialist in economics an understanding of the American economy and to suggest specific techniques by which this understanding can be integrated into the teaching of other subjects at all levels of instruction. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<tr>
<td>296</td>
<td>ECON</td>
<td>592</td>
<td>Independent Study in Economics</td>
<td>198810 Students will pursue their interests in specialized economics subjects under the direction of a member of the economics staff. Topics different from or studied in greater depth than those treated in other economics courses. Prerequisite: 6 hours of credit in economics. A total of 6 hours of credit may be earned, but no more than 3 in one semester or term.</td>
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<td>ECON</td>
<td>595</td>
<td>Seminar in Economics</td>
<td>201410 Economic problems and issues of special interest to students and the instructor. Permits in-depth studies of topics not formally treated in other courses, thereby exposing interested students to a wider variety of economic problem-solving situations. Prerequisite: ECON 201, 202, or 509; permission of the department chairperson. A total of 6 hours of credit may be earned, but no more than 3 in one semester or term. Not open to students who have credit in ECON 495.</td>
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<td>Course Description</td>
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<tr>
<td>297</td>
<td>ECON</td>
<td>610</td>
<td>Advanced Managerial Economics</td>
<td>199510</td>
<td>Focuses on combining economic theory and econometrics to analyze and present solutions in written and oral formats to a variety of actual business problems, including case studies involving local firms and government agencies. Prerequisite: ECON 524 or permission of the instructor.</td>
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<tr>
<td>298</td>
<td>ECON</td>
<td>612</td>
<td>State and Local Econ Develpmnt</td>
<td>201110</td>
<td>This course presents the economic foundations for managing state and local economic development activities. Neoclassical and modern growth theory, and the fundamentals of business location theory are presented, along with public budgeting and institutional detail of economic development activities within state and local government activities within developed economies. Prerequisite: full admission to a Ball State University graduate program.</td>
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<tr>
<td>299</td>
<td>ECON</td>
<td>662</td>
<td>Health and Economics</td>
<td>201410</td>
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<tr>
<td>300</td>
<td>ECON</td>
<td>683</td>
<td>Health Economic Analysis</td>
<td>201410</td>
<td>Studies how economic incentives and institutions affect health, health care, and clinical practice. Will help students apply economic concepts to analyze health care and the effect of various health policies. Also emphasizes ways to improve health-care quality, increase access, and reduce costs. Not open to students who have credit in NUR 662. Open only to students with full admission to a graduate or certificate program of the university or by permission of the department chairperson.</td>
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<tr>
<td>301</td>
<td>ECON</td>
<td>693</td>
<td>Health Economics and Policy</td>
<td>201410</td>
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<td>Department of Finance and Insurance</td>
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<tr>
<td>304</td>
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<td>Undergraduate courses</td>
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<tr>
<td>305</td>
<td>BL</td>
<td>260</td>
<td>Principles of Business Law</td>
<td>201410</td>
<td>The nature, role, structure, and historical development of the legal system. The essential elements of legal liability, contracts, and government regulation of business. Law, ethics, and commercial relations that constitute the legal environment of business.</td>
</tr>
<tr>
<td>306</td>
<td>FIN</td>
<td>110</td>
<td>Personal Finance</td>
<td>201410</td>
<td>The fundamental principles of general business and related economic concepts are considered from the consumer's point of view. Some of the topics studied are consumer buying and the use of credit, banking, insurance, investment, budgeting, and taxation. Core Transfer Library: Professional/Occupational (IPO 1811)</td>
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<tr>
<td>307</td>
<td>FIN</td>
<td>255</td>
<td>Introduction to Investments</td>
<td>201410</td>
<td>Topics include financial markets and investment alternatives such as stocks, bonds, convertible securities, mutual funds, options, and futures. Market indexes (Dow Jones, etc.), market practices and timing, sources of financial data, and investing in an international environment will be discussed. Not open to juniors and seniors majoring in business.</td>
</tr>
<tr>
<td>308</td>
<td>FIN</td>
<td>320</td>
<td>Financial Markets 1</td>
<td>201310</td>
<td>Examine the role of financial markets and institutions in the U.S. financial system. Emphasizes interest rates, monetary policy, the functioning of debt, equity and derivative security markets, and discusses the impact of technology, regulation, globalization, and product innovation. Prerequisite: FIN 300.</td>
</tr>
<tr>
<td>309</td>
<td>RE</td>
<td>230</td>
<td>Real Estate Principles</td>
<td>199610</td>
<td>Economic import of real estate, real estate characteristics, land-use and environmental controls, legal concerns of real estate, methods of valuation, mortgage credit sources, secondary mortgage markets and financing techniques, investment analysis, land development, and real estate operations. Prerequisite: completion of general studies math requirement or permission of the instructor.</td>
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<tr>
<td>310</td>
<td>Graduate courses</td>
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<tr>
<td>311</td>
<td>FIN</td>
<td>680</td>
<td>Global Financial Policy</td>
<td>200310</td>
<td>Capstone examination of the financial management of the global firm. Emphasizes the firm's strategic use of market imperfections when operating in a risky international environment. Explores how exchange rate management adds another dimension to managing the global firm and creates profit opportunities. Prerequisite: FIN 500 or equivalent; full admission to a graduate program in the Miller College of Business. Open only to Miller College of Business students or by permission of the Miller College of Business director of graduate programs.</td>
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<tr>
<td>313</td>
<td>Department of Information Systems and Operations Management</td>
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<tr>
<td>314</td>
<td>Undergraduate courses</td>
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<tr>
<td>315</td>
<td>BED</td>
<td>393</td>
<td>Phil, Org, and Admin of CTE</td>
<td>201010</td>
<td>The principles upon which career/technical education is organized, administered, and supervised; federal and state regulations; agencies that provide delivery systems for career/technical education; vocational rehabilitation; and programs for persons with special needs. Prerequisite: an undergraduate methods course in business education, marketing education, or permission of the department chairperson.</td>
</tr>
<tr>
<td>316</td>
<td>CIS</td>
<td>450</td>
<td>E-Commerce Design/Applications</td>
<td>201510</td>
<td>Presents a comprehensive overview of electronic commerce design and applications. Topics include e-business models, infrastructure, security, payment systems, development methodologies, applicable law and regulations, and strategies. Prerequisite: CIS 226 or permission of the department chairperson.</td>
</tr>
<tr>
<td>317</td>
<td>ISOM</td>
<td>431</td>
<td>Enterprise Res Planning 2</td>
<td>200610</td>
<td>Provides the basic knowledge of the ABAP/4 Development Workbench. Also prepares students to become ABAP/4 Consultants by providing a learning environment similar to an actual SAP work environment. Prerequisite: CIS 413.</td>
</tr>
<tr>
<td>318</td>
<td>ISOM</td>
<td>454</td>
<td>Supply Chain Management</td>
<td>201010</td>
<td>Examines the advancements of information technology/systems and material management tools in a global, supply chain environment. Students will develop an understanding of the overall supply chain management strategy including information systems and inventory strategies. Prerequisite: ISOM 351 or permission of the department chairperson.</td>
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<tr>
<td>ISOM</td>
<td>460</td>
<td>Global Logistics, Transp Mgt</td>
<td>201310</td>
<td>Focuses on the role of in-bound and out-bound logistics in global supply chains, customer relationship management, procurement, multi-modal transportation, pricing and economics, warehousing, packaging and materials handling, regulatory issues, and emerging technologies such as radio frequency identification, global positional systems, and geographically positioning systems. Prerequisite: ISOM 351 or permission of the department chairperson.</td>
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<tr>
<td>ISOM</td>
<td>497</td>
<td>Independent Study</td>
<td>201510</td>
<td>Supervised study of some phase of information systems or logistics and supply chain management. Prerequisite: senior standing; permission of the department chairperson. A total of nine hours of credit may be earned among the 3 courses in ISOM 369, 497, and 498. A total of 9 hours of credit may be earned, but no more than 6 in any one semester or term.</td>
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<tr>
<td>ISOM</td>
<td>480</td>
<td>Supply Chain Mgt Integ Project</td>
<td>201310</td>
<td>Senior level capstone course requires students to plan, develop, and present a capstone project in operations and supply chain management. Topics include global manufacturing strategies, green movement and reversed logistics, lean Six Sigma, enterprise resource planning and implementation, process design--value stream mapping, and product costing. In addition to class meeting time, students will be required to meet in arranged times to complete a capstone project. Prerequisite: ISOM 361, 453, 460 or permission of the department chairperson. Open only to logistics and supply chain management majors.</td>
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<tr>
<td>MGT</td>
<td>347</td>
<td>Business Model Generation</td>
<td>201410</td>
<td>An interactive environment where students work with stakeholders on strategic perspectives and the development of an economically feasible business model towards the capstone project. Prerequisite: MGT 346. Open only to entrepreneurial management majors.</td>
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<tr>
<td>MGT</td>
<td>491</td>
<td>Bus Policy and Strategy Mgt</td>
<td>201510</td>
<td>Integration of various functional areas of business. Development and administration of strategy and policy in private and public sector organizations. Case studies focus on strategic decisions that enable an organization to relate effectively to its industrial, national, and international environments. Normally taken during the last semester of a student's program. Prerequisite: senior standing; completion of all Miller College of Business core classes including BL 260, FIN 300, ISOM 249, 351, MGT 300, MKG 300, MATH 132 or 161 or 162 or 165 or 166. No simultaneous enrollment allowed.</td>
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<tr>
<td>MGT</td>
<td>601</td>
<td>Internatl Iss in Mkg and Mgt</td>
<td>201410</td>
<td>Discussion of business strategies in global industries within economic, political, and international firms. Topics include strategic management processes, methods, policies, and entry strategies for marketing overseas. Based on case studies and/or projects. Prerequisite: full admission to a graduate program of the university; MGT 500, MKG 505 or equivalents.</td>
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Department of Marketing

Undergraduate courses
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<td>1</td>
<td>Subject CrseNo</td>
<td>Course Short Title</td>
<td>TermEffect</td>
<td>Course Description</td>
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<tr>
<td></td>
<td>MKG 300</td>
<td>Principles of Marketing</td>
<td>201410</td>
<td>Introduces marketing principles, functions, and contemporary practices essential for attaining organizational objectives. Topics include the marketing environment and technology, marketing research, consumer behavior, market segmentation, product management, professional selling, advertising, pricing, distribution channels, strategy implementation, and the role of marketing in society. Prerequisite: sophomore standing including ECON 116 or 201.</td>
</tr>
<tr>
<td>331</td>
<td>MKG 345</td>
<td>Procurement and Supply Mgt</td>
<td>201410</td>
<td>Focuses on value creation through sourcing methods and activities. Principal topics include: purchasing process, supply development and fulfillment, negotiations, supplier evaluation/selection, supply base management, contract management, global sourcing, leveraging sustained competitive advantage, supply information systems/electronic commerce, source performance assessment, supplier quality enhancement, purchasing service, and ethics. Prerequisite: MKG 300.</td>
</tr>
<tr>
<td>332</td>
<td>MKG 400</td>
<td>Product Management</td>
<td>201410</td>
<td>Examines the process of developing and managing products and brands as part of the organization's marketing strategy. Possible topics are designing new products, competitive positioning, creating and maintaining strong brand identities, and enhancing brand equity. Prerequisite: MKG 300.</td>
</tr>
<tr>
<td>333</td>
<td>MKG 470</td>
<td>International Marketing</td>
<td>201410</td>
<td>Examines the opportunities and problems associated with conducting business on a global scale. Focuses on the knowledge and skills needed for identifying, evaluating, and managing international marketing functions. Students are introduced to the economic, socio-cultural, financial, and legal-political factors affecting international marketing. Prerequisite: MKG 300.</td>
</tr>
<tr>
<td>334</td>
<td>MKG 475</td>
<td>Marketing Simulation</td>
<td>201410</td>
<td>Structured around a marketing management simulation exercise, students are divided into teams to operate business firms. Each team develops and implements a strategic plan, making tactical operating decisions. Addresses the complexity of integrating marketing, finance, and production while operating in a global environment. Prerequisite: MKG 300; junior standing.</td>
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<tr>
<td>335</td>
<td>Graduate courses</td>
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<tr>
<td>336</td>
<td>MKG 505</td>
<td>Survey of Marketing</td>
<td>201410</td>
<td>A survey of marketing that reflects the social, economic, and international challenges facing marketing managers. Examines the roles of marketing in both society and business. Prerequisite: full admission to a graduate or certification program of the university.</td>
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<tr>
<td>337</td>
<td>Graduate courses</td>
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<tr>
<td>338</td>
<td>Department of Communication Studies</td>
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<td>339</td>
<td>Undergraduate course</td>
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<td>340</td>
<td>COMM 310</td>
<td>Communication and Democracy</td>
<td>201410</td>
<td>Emphasizes the vital role that communication plays in America's political history. Examines various genres of discourse (e.g., speeches, pamphlets and handbills, political advertising, film) used to address political, social, and economic issues. Prerequisite: COMM 210 or permission of the department chairperson.</td>
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<td>341</td>
<td>Graduate courses</td>
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<td>342</td>
<td>Graduate courses</td>
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<tr>
<td>COMM</td>
<td>635</td>
<td>Interpersonal Communication</td>
<td>201410</td>
<td>Contemporary theories, models, and pertinent research related to the communication process in relatively unstructured face-to-face settings. Understanding message exchanges between people and their influence on social interaction. Topics include communication models, perception, symbols, systems, self-concept, attitudes, meaning, and nonverbal messages.</td>
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<tr>
<td>ICS</td>
<td>633</td>
<td>Systems Analysis and Design</td>
<td>199910</td>
<td>Study of various concepts and techniques for analysis of information needs, specification of system requirements, system-development life cycle, and design, development, and implementation of computer-based information systems in organizations. Includes structural and prototype approaches.</td>
</tr>
<tr>
<td>ICS</td>
<td>643</td>
<td>Social Responsibility in ICT</td>
<td>199910</td>
<td>Political, economic, social, and governmental elements that interact with I/C systems. Emphasizes major contemporary issues confronting broadcasters and others in the electronic media. Covers ethics in decision making, definition of standards, and responsibilities in electronic communication.</td>
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<tr>
<td>JOUR</td>
<td>385</td>
<td>Writing Design Strategic Comm</td>
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<tr>
<td>NEWS</td>
<td>120</td>
<td>Storytelling</td>
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<tr>
<td>NEWS</td>
<td>122</td>
<td>Storytelling</td>
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<tr>
<td>AFA</td>
<td>305</td>
<td>Drawing from Nature</td>
<td>201210</td>
<td>Drawing explored through visual responses to the environment and natural subject matter. Includes field trips and site specific sketching and journaling. Prerequisite: ADS 102 or CAP 102; AFA 202. Open only to art majors.</td>
</tr>
<tr>
<td>MUST</td>
<td>444</td>
<td>Human-Computer Interface Desg</td>
<td>201210</td>
<td>Exploration of practices and techniques of human-computer interface design and implementation in musical, visual, and intermedia arts. Projects will focus on the development of human control systems for real-time artistic output. Studio laboratory time required.</td>
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<td><strong>Course Description</strong></td>
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<tr>
<td><strong>371</strong></td>
<td><strong>Department of Anthropology</strong></td>
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<td><strong>372</strong></td>
<td>Undergraduate courses</td>
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<tr>
<td><strong>373</strong></td>
<td>ANT</td>
<td><strong>101 Intro to Cultural Anthropology</strong></td>
<td>201410</td>
<td>Introduces the diversity of human social life as shaped by culture, relating the origins and nature of culture to variations in such universal aspects of human experience as subsistence strategies, resource allocation, social organization, political order, belief systems and the arts.</td>
</tr>
<tr>
<td><strong>374</strong></td>
<td>ANT</td>
<td><strong>105 Introduction Biological Anth</strong></td>
<td>201410</td>
<td>Introduces students to human variation over space and time; its genetic, developmental, environmental, and theoretical bases; the human life cycle; primatology; the anthropoid fossil record, and the relevance of these for an understanding of human health, adaptation, and human diversity.</td>
</tr>
<tr>
<td><strong>375</strong></td>
<td>ANT</td>
<td><strong>206 Fundamentals Biological Anth</strong></td>
<td>200610</td>
<td>Introduces the major concepts, mechanisms, methodology, and types of data dealt with by biological anthropology: primate and human evolution; genetics; primate anatomy, diversity, and behavior; ontogeny and life cycle variations; geographic variation; adaptation; and other interactions between environment, culture, and biology.</td>
</tr>
<tr>
<td><strong>376</strong></td>
<td>ANT</td>
<td><strong>312 Ecological Dims of Culture</strong></td>
<td>201510</td>
<td>Explores the system of relationships between human populations and their environments focusing on cultural behavior. Uses studies of societies from ancient to modern times, models and theories from ecology and anthropology, and considers both applied and theoretical perspectives. Prerequisite: any one of ANTH 101, 103, 105, 111; or permission of the instructor.</td>
</tr>
<tr>
<td><strong>377</strong></td>
<td>ANT</td>
<td><strong>331 Native Amer of N America</strong></td>
<td>200610</td>
<td>Cultures of the North American Native Americans emphasizing their economic, sociopolitical, and religious institutions.</td>
</tr>
<tr>
<td><strong>378</strong></td>
<td>ANT</td>
<td><strong>481 Cult, Econ, and Dev</strong></td>
<td>200610</td>
<td>Concerned with a culturally embedded view of allocation, conversion, production, distribution, and consumption of resources. Emphasizes economic development in third and fourth world countries both from theoretical and applied perspectives.</td>
</tr>
<tr>
<td><strong>379</strong></td>
<td>ANT</td>
<td><strong>482 Nat Amer of Amer SW</strong></td>
<td>200610</td>
<td>Surveys prehistoric, historic, and contemporary cultures of selected Southwest Native American groups. Emphasizes culture-specific solutions to problems perceived in their relationship to their natural and social environments.</td>
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<td><strong>380</strong></td>
<td><strong>Graduate courses</strong></td>
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<tr>
<td><strong>381</strong></td>
<td>ANT</td>
<td><strong>512 Eco Dim of Culture</strong></td>
<td>201510</td>
<td>Explores the system of relationships between any human population and its environment, focusing on cultural behavior. Uses studies from ancient to modern times and models and theories from ecology and anthropology; considers both applied and theoretical perspectives. Prerequisite: an introductory cultural anthropology course or permission of the instructor. Not open to students who have credit in ANTH 312.</td>
</tr>
<tr>
<td><strong>382</strong></td>
<td>ANT</td>
<td><strong>531 Native Amers N Amer</strong></td>
<td>200710</td>
<td>Survey of cultures of North American Native Americans emphasizing their economic, sociopolitical, and religious institutions. Not open to students who have credit in ANTH 331.</td>
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<tr>
<td>384</td>
<td>ANTH</td>
<td>581</td>
<td>Cult, Econ, and Dev</td>
<td>200710</td>
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<tr>
<td>385</td>
<td>ANTH</td>
<td>582</td>
<td>Native Amers of Ameri SW</td>
<td>200710</td>
</tr>
<tr>
<td>386</td>
<td>ANTH</td>
<td>600</td>
<td>Graduate Studies Seminar</td>
<td>199710</td>
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**Department of Biology**

**Undergraduate courses**

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<tr>
<th>A</th>
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<th>Course Short Title</th>
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<tr>
<td>390</td>
<td>BIO</td>
<td>100</td>
<td>Biology for a Modern Society</td>
<td>201410</td>
<td>Considers biological issues related to the environment, genetics and biotechnology, human reproduction and development, and population biology. Historical, contemporary, and future implications of these issues are discussed. Core Transfer Library: Life Sciences (ILS 1503) Not open to students who have credit in BIO 102, 111, or 112.</td>
</tr>
<tr>
<td>391</td>
<td>BIO</td>
<td>217</td>
<td>Methods in Ecology</td>
<td>200010</td>
<td>Introduction to scientific study designs, measurements, data analysis, and the logic of inference as applied to ecological research. Focuses on a field research project that culminates in a written report and an oral presentation. Prerequisite or parallel: BIO 216.</td>
</tr>
<tr>
<td>392</td>
<td>BIO</td>
<td>220</td>
<td>Ecological Issues 21st Century</td>
<td>200910</td>
<td>Fundamental concepts of ecology, including interactions between organisms and their environment, population/community dynamics, and structure/ function of ecosystems. Application of concepts to current ecological issues (e.g., species extinction, human population dynamics, human food production systems, natural resource depletion, and global environmental change). Intended for non-biology majors. Not open to students who have credit in BIO 216. Open only to non-biology majors.</td>
</tr>
<tr>
<td>393</td>
<td>BIO</td>
<td>254</td>
<td>Biology in the Social Context</td>
<td>200810</td>
<td>Designed to foster understanding of the interactions between and among human biological and social systems. Emphasizes biological concepts as they relate to health and behavior. Prerequisite recommended: college level introductory biology. Open only to social work or family and consumer sciences majors, or by permission of the department chairperson.</td>
</tr>
<tr>
<td>394</td>
<td>BIO</td>
<td>369</td>
<td>Internship in Biology</td>
<td>201410</td>
<td>Paid, supervised field and laboratory experiences in public or private agencies (or in the Department of Biology). Training involves application of biological principles in the work environment. Prerequisite: permission of the department chairperson. A total of 6 hours of credit may be earned.</td>
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<tr>
<td>395</td>
<td>BIO</td>
<td>418</td>
<td>Comm and Ecos Ecol</td>
<td>199410</td>
<td>Principles of ecological organization at the community and ecosystems levels. Emphasizes the processes that influence the structure and function of communities and ecosystems. Laboratory includes field and lab studies of plant and animal systems. Prerequisite: BIO 216.</td>
</tr>
<tr>
<td>396</td>
<td>BIO</td>
<td>482</td>
<td>Aquatic Microbiology</td>
<td>198810</td>
<td>Microorganisms indigenous to nonpolluted and polluted aquatic ecosystems. Emphasizes nutrient cycling and use of microorganisms as indicators of pollution. Morphology, physiology, and ecology of specific organisms. Lecture and laboratory. Prerequisite: BIO 313.</td>
</tr>
<tr>
<td>398</td>
<td>BOT</td>
<td>481</td>
<td>Aquatic Botany</td>
<td>201310</td>
<td>The collection and identification of nonvascular and vascular plants from freshwater ecosystems. Emphasizes the morphology, physiology, and ecology of these plants to explain their distribution in nature. Class project and field trips may be used to demonstrate ecological relationships. Two Saturday field trips required. Prerequisite: BIO 210 or permission of the instructor.</td>
</tr>
<tr>
<td>399</td>
<td>BOT</td>
<td>380</td>
<td>Forestry</td>
<td>199110</td>
<td>General course in forestry with emphasis on forest policy, ecology, and management. Current issues are discussed with particular reference to their social, political, and environmental implications. Lecture and laboratory.</td>
</tr>
<tr>
<td>400</td>
<td>BOT</td>
<td>442</td>
<td>Economic Botany</td>
<td>198810</td>
<td>The cultivation, processing, environmental requirements, and use of plants and plant derivatives for food, drugs, dwellings, clothing, and power.</td>
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<tr>
<td>402</td>
<td>BOT</td>
<td>481</td>
<td>Aquatic Botany</td>
<td>201310</td>
<td>The collection and identification of nonvascular and vascular plants from freshwater ecosystems. Emphasizes the morphology, physiology, and ecology of these plants to explain their distribution in nature. Class project and field trips may be used to demonstrate ecological relationships. Two Saturday field trips required. Prerequisite: BIO 210 or permission of the instructor.</td>
</tr>
<tr>
<td>403</td>
<td>ZOOL</td>
<td>446</td>
<td>Mammalogy</td>
<td>198810</td>
<td>The evolutionary origin, characteristics, and distribution of recent mammals. The economic relationships of mammals. The collection and preservation of specimens. May require additional field work. Prerequisite: BIO 112 or permission of the department chairperson.</td>
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<tr>
<td>404</td>
<td>ZOOL</td>
<td>484</td>
<td>Aquatic Entomology</td>
<td>201310</td>
<td>Immature and adult stages of aquatic insects, including collecting techniques, identification, ecological requirements, morphology, and evolutionary adaptations to lentic and lotic conditions. Emphasizes aquatic insects as indicators of environmental quality and stress. Prerequisite: BIO 216.</td>
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<tr>
<td>405</td>
<td>PHYS</td>
<td>645</td>
<td>Emergency Medicine</td>
<td>198810</td>
<td>Designed to develop an awareness of proper diagnosis and treatment during emergency medical care by professional medical personnel. Fractures; environmental emergencies; injuries to the eye, chest, and abdomen; shock; and wound care. Prerequisite: admission to the medical education program.</td>
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<td><strong>Subject</strong></td>
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<td><strong>Course Description</strong></td>
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<td>The composition, development, dynamics, and geographic distribution of animal communities. The relationships between animals and the physical, chemical, and biotic elements of the environment. Includes physiological ecology and ethology. Field studies of animal communities.</td>
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<tr>
<td>ZOOL</td>
<td>682</td>
<td>Animal Ecology</td>
<td>198810</td>
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<td><strong>Department of Chemistry</strong></td>
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<td><strong>Graduate courses</strong></td>
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<td>Department of Criminal Justice and Criminology</td>
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<td><strong>Undergraduate course</strong></td>
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<td>CJC</td>
<td>250</td>
<td>Introduction to Courts</td>
<td>201410</td>
<td>Introduction to the American court and judicial systems emphasizing their structure, operation, and objectives. Prerequisite: CJC 101, 102; or permission of the department chairperson.</td>
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<td><strong>Department of Computer Science</strong></td>
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<td><strong>CS</strong></td>
<td>446</td>
<td>Systems Administration</td>
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<td><strong>Graduate courses</strong></td>
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<td><strong>Department of English</strong></td>
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<td><strong>Undergraduate courses</strong></td>
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<td>ENG</td>
<td>104</td>
<td>Composition</td>
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<td><strong>Graduate courses</strong></td>
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<td>ENG</td>
<td>627</td>
<td>Sociolinguistics</td>
<td>199710</td>
<td>Examines the correlation of linguistic variation with geographic areas and social variables such as sex, age, socioeconomic status, and ethnicity. Prerequisite: ENG 320 or 520; permission of the department chairperson.</td>
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<td><strong>Department of Geography</strong></td>
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<td><strong>Undergraduate courses</strong></td>
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<tr>
<td>GEOG</td>
<td>101</td>
<td>Earth Sea Sky: Geographic View</td>
<td>201410</td>
<td>Selected aspects of the physical environment and their relationship to human occupancy of the earth.</td>
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<tr>
<td>GEOG</td>
<td>120</td>
<td>Economic Geog of Globalization</td>
<td>200810</td>
<td>A systematic approach to economic issues emphasizing local, regional, national, and global economic developments in the geographic setting.</td>
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<tr>
<td>GEOG</td>
<td>121</td>
<td>Geog of Cultural Environment</td>
<td>201010</td>
<td>Utilizes qualitative methods to investigate relationships between human culture and the environment. Spatial processes that bring about cultural diversity and change are stressed as well as the role of human activity in producing cultural landscapes. The formation of cultural landscapes over time and the impacts of globalization are emphasized.</td>
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<tr>
<td>GEOG</td>
<td>150</td>
<td>Global Geography</td>
<td>201410</td>
<td>A basic survey course emphasizing geographic facts and interdependencies between the developed and developing world. Particular emphasis is given to physical and social environmental interdependencies.</td>
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<td>Course Description</td>
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<tr>
<td>433</td>
<td>GEOG 261</td>
<td>Tourism Systems</td>
<td>200010</td>
<td>Surveys the history, components, and spatial structure of travel and tourism as a socioeconomic phenomenon and as an industry. Also examines its institutional organization, the motivations and flows of travelers, and global and local interactions and implications.</td>
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<tr>
<td>434</td>
<td>GEOG 262</td>
<td>Tourism Regions</td>
<td>200010</td>
<td>Examines locational patterns of various forms of tourism and the main geographic characteristics of these destinations. Analyzes spatial and temporal models and flows and their economic, social, cultural, and environmental impacts through selected detailed case studies.</td>
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<tr>
<td>435</td>
<td>GEOG 265</td>
<td>Intro Geographic Info Systems</td>
<td>201410</td>
<td>Fundamentals of geographic information systems (GIS). How to visualize information in ways that reveal relationships, patterns, and trends not visible in other software systems. Develop working knowledge of the full capabilities of GIS technology.</td>
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<tr>
<td>436</td>
<td>GEOG 270</td>
<td>Geog of International Conflict</td>
<td>201310</td>
<td>Focuses on contemporary armed conflicts, including culture-based conflicts and competition among nations for economic and mineral resources; treats territorial disputes from a cultural and geographic perspective. Case studies vary to illustrate types of contemporary conflicts.</td>
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<tr>
<td>437</td>
<td>GEOG 330</td>
<td>Weather Analysis</td>
<td>200010</td>
<td>Presentation and practice of synoptic- and meso-scale diagnostic analysis techniques, including a review of satellite and radar remote sensing systems and image interpretation. Introduction to numerical weather prediction. Prerequisite: GEOG 230.</td>
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<tr>
<td>438</td>
<td>GEOG 344</td>
<td>Adv Geog Info Systems Analysis</td>
<td>200010</td>
<td>Examination and use of analysis techniques in geographic information systems (GIS). Introduction to basic GIS programming. Diagramming GIS logic and processing flows. Exposure to widely used GIS data models. Prerequisite: GEOG 240, 265; or permission of the instructor.</td>
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<tr>
<td>439</td>
<td>GEOG 351</td>
<td>Latin American and Caribbean</td>
<td>198810</td>
<td>Physical and cultural patterns in a diverse world region. Emphasizes population and settlement, agriculture, and environmental hazards in the context of development.</td>
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<tr>
<td>440</td>
<td>GEOG 353</td>
<td>Geography of Indiana</td>
<td>198810</td>
<td>A geographic examination of the physical, cultural, and economic diversity of the state. Field experiences supplement classroom activities.</td>
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<tr>
<td>441</td>
<td>GEOG 356</td>
<td>Geog Russia and Its Neighbors</td>
<td>199410</td>
<td>Geographic analysis of the locational, environmental, economic, and cultural diversity of the successor countries to the Soviet Union. Regional examination of Russia, Baltic, and other East European countries, Transcaucasia and Central Asia.</td>
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<tr>
<td>442</td>
<td>GEOG 357</td>
<td>Geography of Europe</td>
<td>200610</td>
<td>Examines the changing physiographic, climatic, economic, and political environments of Europe. While addressing the entire European cultural area, from the Atlantic Ocean in the west, to the Ural and Caucasus mountains in the east, primary emphasis is given to countries of Western, Northern, Southern and Central Europe.</td>
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<tr>
<td>443</td>
<td>GEOG 445</td>
<td>GIS Apps Design and Develop</td>
<td>200010</td>
<td>Fundamentals of geographic information systems (GIS) programming. Develop and implement customized GIS applications. Exposure to widely used GIS software programming environments. Prerequisite: GEOG 265, 344, or permission of the instructor.</td>
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<td>444</td>
<td>GEOG</td>
<td>491 Tourism Development</td>
<td>200010</td>
<td>Discusses how to develop tourism destinations and activities that integrate sustainable economic development, accessibility, and indigenous cultural evolution with minimal impact on the environment. Includes site assessment, financial analysis, market forecasting, and impact assessment. Prerequisite: GEOG 261, 262; or permission of the instructor.</td>
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<td>445</td>
<td>Graduate courses</td>
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<tr>
<td>446</td>
<td>GEOG</td>
<td>530 Weather Analysis</td>
<td>201410</td>
<td>Presentation and practice of synoptic- and meso-scale diagnostic analysis techniques, including a review of satellite and radar remote sensing systems and image interpretation. Introduction to numerical weather prediction. Not open to students who have credit in GEOG 330.</td>
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<tr>
<td>447</td>
<td>GEOG</td>
<td>545 GIS Apps Design and Develop</td>
<td>200110</td>
<td>Fundamentals of geographic information system (GIS) programming. Develop and implement customized GIS applications. Exposure to widely used GIS software programming environments. Prerequisite: GEOG 265, 544; or permission of the instructor. Not open to students who have credit in GEOG 445.</td>
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<tr>
<td>448</td>
<td>GEOG</td>
<td>653 Geography of Indiana</td>
<td>198810</td>
<td>A geographic examination of the physical, cultural, and economic diversity of the state. Field experience with assigned projects supplements classroom activities.</td>
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<td>450</td>
<td>Department of Geological Sciences</td>
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<td>451</td>
<td>Undergraduate courses</td>
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<td>452</td>
<td>GEOL</td>
<td>101 Planet Earth Geol Environment</td>
<td>201410</td>
<td>Introductory study of the materials, structure, and surface features of the earth; the processes responsible for their development; geologic hazards; and the application of geologic knowledge to mankind’s environmental and resource problems. Core Transfer Library: Physical Sciences (IPS 1730).</td>
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<td>453</td>
<td>GEOL</td>
<td>105 Lab in Physical Geology</td>
<td>200410</td>
<td>Practical study of minerals, rock, planemetric and topographic maps, fold and fault structures, geological maps, climate change, earthquakes, flooding, sustainability; local field trip. An introductory high school or college earth science course. Prerequisite: an introductory high school or college earth science course; permission of the department chairperson. Not open to students who have credit in GEOL 101. Open only to geology and earth science students that had an introductory earth science course without a lab similar to GEOL 101.</td>
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<tr>
<td>454</td>
<td>GEOL</td>
<td>201 Earth, Life, and Time</td>
<td>201010</td>
<td>Introduction to the geologic history of the Earth’s dynamic systems in relation to the development of the modern environment. Regularly scheduled laboratory. Prerequisite: any UCC Tier 1 course in the Natural Sciences Domain or permission of the department chairperson.</td>
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<td>455</td>
<td>GEOL</td>
<td>206 Oceans and Nations</td>
<td>201010</td>
<td>Worldwide human interactions with the oceans and international conflicts of interest related to the marine environment. Introduction to oceanography, marine law, resource conflicts, pollution, cooperation for research and hazard response, and other topics. Credit does not count toward the geology minor.</td>
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<td>456</td>
<td>GEOL</td>
<td>308 Sedimentary Geology</td>
<td>201110</td>
<td>An introduction to the study of sedimentary rocks and processes. Sedimentary rock description, depositional environments, and the application of stratigraphic methods. Regularly scheduled laboratory and a field trip. Prerequisite: GEOL 201 or permission of the department chairperson.</td>
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<td><strong>Course Description</strong></td>
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<tr>
<td>GEOL</td>
<td>330</td>
<td>Geological Field Tour</td>
<td>201410</td>
<td>Rocks, structure, fossils, landforms, environmental geology, economic resources, and geologic history of a specific region, investigated mainly in the field. Individual course offerings specify geographic region of focus, any on-campus class meeting component in addition to the extended field trip, and student assignments/evaluation. A total of 12 hours of credit may be earned, but no more than 6 in any one semester or term.</td>
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<tr>
<td>GEOL</td>
<td>416</td>
<td>Geology Hazards Environment</td>
<td>201110</td>
<td>Applied geology for hazard and environmental problems. Properties and mechanics of rocks and soil; geologic materials in construction; erosion, mass wasting, subsidence; flooding, shoreline, seismic, volcanic, and other natural hazards. Dams, tunnels, mines, shoreline structures, and other special construction problems; groundwater engineering problems. Prerequisite: an introductory course such as GEOL 101, 207, 240; MATH 108 or high school equivalent, permission of the department chairperson.</td>
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<tr>
<td>GEOL</td>
<td>434</td>
<td>Applied Biostratigraphy</td>
<td>201410</td>
<td>Advanced undergraduate course designed to provide practical experience in geologic problem solving in energy and oceanographic fields. Intended as an advanced elective which will provide an immersion opportunity for geology and earth science majors. Focused on the use of microfossils to solve correlation and paleoecological problems, primarily in the subsurface. Run as a semester length course (usually during the fall semester) and involves work in the Ball State University Biostratigraphy Laboratory. Prerequisite: GEOL 409 or permission of the instructor.</td>
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<tr>
<td>GEOL</td>
<td>413</td>
<td>Experimental Petrology</td>
<td>201410</td>
<td>Students are introduced with several experimental apparatuses that are designed to simulate the behavior of Earth's materials at different P-T conditions. Student will learn various heterogeneous phase equilibria that are of interest to geologists. Students are expected to learn how to construct various phase diagrams and to apply appropriate melting systems to model the formation of solid Earth and the other terrestrial bodies. Prerequisite: GEOL 310.</td>
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<tr>
<td>GEOL</td>
<td>440</td>
<td>Karst and Carbonates</td>
<td>201310</td>
<td>A study of a portion of the global carbon cycle that includes an intensive survey of karst aquifers and landscapes as well as the geology of the carbonate rocks in which the karst forms. Planned topics will include carbonate depositional environments, carbonate petrology and diagenesis, speleogenetic theories, karst hydrology and geochemistry, karst geomorphology, and environmental/engineering challenges in karst. Prerequisite: GEOL 207, 240. Not open to students who have credit in GEOL 540.</td>
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<tr>
<td>GEOL</td>
<td>462</td>
<td>Env Geol in the Field and Lab</td>
<td>201210</td>
<td>Provides development of research projects and instruction in field and laboratory techniques used in the collection and analysis of field samples. The techniques are applied to the study of local environment research projects and may include instruction on well probes and standard &quot;wet&quot; chemical techniques. Prerequisite: GEOL 207, 360 or 560.</td>
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<td>GEOL</td>
<td>470</td>
<td>Groundwater Geochemistry</td>
<td>199410</td>
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<td>463</td>
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<td>Graduate courses</td>
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<td>464</td>
<td>GEOL</td>
<td>508</td>
<td>201110</td>
<td>Sedimentary Geology</td>
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<td>465</td>
<td>GEOL</td>
<td>513</td>
<td>201410</td>
<td>Experimental Petrology</td>
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<tr>
<td>466</td>
<td>GEOL</td>
<td>516</td>
<td>201110</td>
<td>Geol of Hazards and Env</td>
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<td>467</td>
<td>GEOL</td>
<td>530</td>
<td>201410</td>
<td>Geological Field Tour</td>
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<td>468</td>
<td>GEOL</td>
<td>534</td>
<td>201410</td>
<td>Applied Biostratigraphy</td>
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<tr>
<td>GEOL</td>
<td>540</td>
<td>Karst and Carbonates</td>
<td>201410</td>
<td>A study of a portion of the global carbon cycle that includes an intensive survey of karst aquifers and landscapes as well as the geology of the carbonate rocks in which the karst forms. Planned topics will include carbonate depositional environments, carbonate petrology and diagenesis, speleogenetic theories, karst hydrology and geochemistry, karst geomorphology, and environmental/engineering challenges in karst. Prerequisite: GEOL 207, 240. Not open to students who have credit in GEOL 440.</td>
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<tr>
<td>GEOL</td>
<td>562</td>
<td>Env Geol in the Field and Lab</td>
<td>201210</td>
<td>Provides development of research projects and instruction in field and laboratory techniques used in the collection and analysis of field samples. The techniques are applied to the study of local environment research projects and may include instruction on well probes and standard &quot;wet&quot; chemical techniques. Prerequisite: GEOL 207, 360 or 560. Not open to students who have credit in GEOL 462.</td>
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<tr>
<td>GEOL</td>
<td>570</td>
<td>Groundwater Geochemistry</td>
<td>199510</td>
<td>Introduces the processes controlling the composition of natural waters: streams, lakes, oceans, and near-surface ground waters. Focuses on the effects of human activities, biological systems, and inorganic geochemistry processes on water chemistry. Prerequisite: GEOL 101; CHEM 111, 112; or permission of the department chairperson. Not open to students who have credit in GEOL 470.</td>
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<tr>
<td>GEOL</td>
<td>601</td>
<td>Seminar Environmental Geology</td>
<td>199510</td>
<td>Review and discussion of the literature related to a selected topic of current interest in environmental geology. Laboratory work and field trips may be included when necessary. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<td>GEOL</td>
<td>610</td>
<td>Seminar Sedimentary Petrology</td>
<td>200110</td>
<td>Advanced coverage of sedimentary rocks, their constituents, their environments of deposition, and the diagenetic processes that alter them after deposition. Proficiency in recognition of sedimentary constituents, in naming sedimentary rock types, and in interpretation of depositional, diagenetic, and provenance processes is expected. Prerequisite: GEOL 412 or 512, or permission of the instructor.</td>
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<td>Department of History</td>
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<tr>
<td>HIST</td>
<td>152</td>
<td>World Civ since 1500</td>
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<tr>
<td>HIST</td>
<td>198</td>
<td>Non-Western Civilizations</td>
<td>201410</td>
<td>Examination of a broad range of patterns and problems found in the Middle East, Asia, Africa, and Latin America with emphasis on recent and contemporary development. Topics vary among political, economic, and social issues of major importance.</td>
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<tr>
<td>HIST</td>
<td>201</td>
<td>American History, 1492-1876</td>
<td>201410</td>
<td>Survey of the political, diplomatic, economic, cultural, and sociological forces and adjustments that have affected the history of the United States to 1876. Core Transfer Library: Behavioral Sciences/Humanities (ISH 1010)</td>
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<tr>
<td>HIST</td>
<td>202</td>
<td>US History, 1877 to Present</td>
<td>201410</td>
<td>Survey of the political, diplomatic, economic, cultural, social, racial, ethnic, and gender issues and key related events that have affected the history of the United States since 1877. Core Transfer Library: Behavioral Sciences/Humanities (ISH 1011)</td>
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<td>HIST</td>
<td>204</td>
<td>Environmental History</td>
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<tr>
<td>483</td>
<td>HIST</td>
<td>403 Early National US, 1789-1824</td>
<td>198810</td>
<td>An analysis of the foundations of the United States as a new nation with emphasis on the major social, political, economic, and diplomatic events of the period.</td>
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<tr>
<td>484</td>
<td>HIST</td>
<td>405 US Nati Sectional, 1820-1860</td>
<td>198810</td>
<td>An analysis of the major social, political, economic, and cultural developments in the United States with emphasis on the major leaders and events involving the sectional conflict leading to the Civil War, 1820-1860.</td>
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</tr>
<tr>
<td>485</td>
<td>HIST</td>
<td>409 US Progressivism, 1878-1918</td>
<td>198810</td>
<td>America’s rise to world significance at home and abroad between 1878 and 1918; the political, social, and economic problems entailed therein; and various efforts at reform.</td>
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<tr>
<td>486</td>
<td>HIST</td>
<td>441 Comparative Slavery</td>
<td>200410</td>
<td>Explores the types of bondage, unfree labor systems, and slavery and the slave trade throughout African history as well as in a number of geographical regions for comparison. Includes Africa, the Mediterranean, the Caribbean, and Central and South America. Prerequisite: HIST 150 or permission of the department chairperson.</td>
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<tr>
<td>487</td>
<td>HIST</td>
<td>449 American Culture Field Studies</td>
<td>201410</td>
<td>American culture, its art, economic life, educational systems, geography, history, industry, languages, music, and society. Students travel through designated areas in North America. Requires considerable reading before the trip and papers at the conclusion. With departmental approval, secondary social studies teacher-education students with a concentration in United States history may apply 3 hours of credit to category 1, 2, or 3. A total of 6 hours of credit may be earned.</td>
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<tr>
<td>488</td>
<td>HIST</td>
<td>452 Women Modern European History</td>
<td>199810</td>
<td>Survey of women's experiences in modern European history. Examines the impact of major socio-cultural, political, and economic developments upon their lives; attitudes toward women's social roles; and their diverse attempts to change their social, political, economic, and sexual status.</td>
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<tr>
<td>489</td>
<td>HIST</td>
<td>453 Modern Western Culture</td>
<td>198810</td>
<td>Development of cultural and intellectual movements in the fine arts, literature, scholarship, political and economic thought, science, and social reform from the eighteenth century to the present. Emphasizes themes and problems of major significance.</td>
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<tr>
<td>490</td>
<td>HIST</td>
<td>456 Cold War and Europe Since 1945</td>
<td>198810</td>
<td>European origin of the Cold War and rebirth of a &quot;new&quot; but divided Europe with stress on East-West conflict, power blocs, international relations, and temporary decline of European influence; ideological, political, economic, and social development, including competition between Western and Sovietized Eastern Europe.</td>
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<tr>
<td>491</td>
<td>HIST</td>
<td>458 Euro Strategy and Diplomacy</td>
<td>200610</td>
<td>Examines, interprets, and evaluates British, German, Russian, French, Italian, and Austrian strategy and diplomacy--and economic, geographic, ideological, and military foundations of national power--focusing upon the &quot;German Question,&quot; Eurocentrism, imperialism, two world wars, renewed multipolarity, the European Community, and the Cold War.</td>
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<tr>
<td>492</td>
<td>HIST</td>
<td>464 Byzantine Civilization</td>
<td>198810</td>
<td>Survey of the political, socioeconomic, and intellectual development of the Byzantine Empire from its beginnings to 1453, with special emphasis on Byzantine religious and cultural contributions and relations with the European and Muslim worlds.</td>
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<td>1</td>
<td>HIST</td>
<td>467</td>
<td>Renaissance and Reformation</td>
<td></td>
<td>Specialized study of the crises, changes, and cultural achievements of Europe in an age of transition. Emphasizes such major topics as the late medieval crises, Italian and northern Renaissance thought and art, the religious crisis of the sixteenth century, and political, social, and economic problems of Renaissance Europe.</td>
</tr>
<tr>
<td>2</td>
<td>HIST</td>
<td>469</td>
<td>World Civ Field Studies</td>
<td>201410</td>
<td>Studies in world civilizations--their history, art, economic life, educational systems, geography, industry, languages, music, and society-- through varied travel programs. Advance reading and a summary paper complement each year's travel program and are required. With departmental approval, secondary social studies teacher-education students with a concentration in world civilization may apply 3 hours of credit to category 1, 2, or 4. A total of 6 hours of credit may be earned.</td>
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<tr>
<td>3</td>
<td>HIST</td>
<td>475</td>
<td>Britain, 1485-1714</td>
<td></td>
<td>A survey of the political, social, and economic history of England in the Tudor and Stuart periods. Emphasizes the rise of the national state, religious conflicts, the development of the power of Parliament, and overseas exploration and colonization.</td>
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<tr>
<td>4</td>
<td>HIST</td>
<td>491</td>
<td>Topics in Middle East History</td>
<td>199210</td>
<td>Selected issues and problems in the Middle Eastern world since Muhammed. Topics may include the expansion of Islam, slavery in the Middle East, the economic and social history and the Ottoman empire, the Arab/Israeli dispute, and recent national and international crises.</td>
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<tr>
<td>5</td>
<td>HIST</td>
<td>493</td>
<td>History of Pre-modern Japan</td>
<td>199210</td>
<td>Analytical survey of pre-modern Japanese history to circa 1600, focusing on the ideological, political, social, economic, and cultural developments that build a foundation for the understanding of modern Japan.</td>
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<td>6</td>
<td>HIST</td>
<td>496</td>
<td>Modern Japan, 1600 to Present</td>
<td>201410</td>
<td>Descriptive and analytical survey of political and economic developments, foreign policy, and social and cultural change in modern Japan with emphasis on conditions contributing to its rapid modernization, nationalist and expansionist movements, and dynamic postwar recovery.</td>
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<td>7</td>
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<td><strong>Graduate courses</strong></td>
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<td>8</td>
<td>HIST</td>
<td>503</td>
<td>Early National US, 1789-1824</td>
<td></td>
<td>The foundations of the United States as a new nation with emphasis on the major social, political, economic, and diplomatic events of the period. Not open to students who have credit in HIST 403.</td>
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<td>9</td>
<td>HIST</td>
<td>505</td>
<td>US Nat'l Sectional, 1820-1860</td>
<td></td>
<td>The major social, political, economic, and cultural developments in the United States with emphasis on the major leaders and events involved in the sectional conflict leading to the Civil War, 1820-1860. Not open to students who have credit in HIST 405.</td>
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<tr>
<td>10</td>
<td>HIST</td>
<td>509</td>
<td>US Progressivism, 1878-1918</td>
<td></td>
<td>America's rise to world significance at home and abroad between 1878 and 1918; the political, social, and economic problems and various efforts at reform. Not open to students who have credit in HIST 409.</td>
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<td>11</td>
<td>HIST</td>
<td>541</td>
<td>Comparative Slavery</td>
<td>200310</td>
<td>Explores the types of bondage, unfree labor systems, and slavery and the slave trade throughout African history as well as in a number of geographical regions for comparison. Includes Africa, the Mediterranean, the Caribbean, and Central and South America. Prerequisite: permission of the department chairperson. Not open to students who have credit in HIST 441.</td>
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<td>A total of 6 hours of credit may be earned.</td>
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<td></td>
<td>HIST</td>
<td>549</td>
<td>American Culture Field Studies</td>
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<tr>
<td>504</td>
<td></td>
<td><strong>Course Short Title</strong></td>
<td></td>
<td>American culture, its art, economic life, educational systems, geography, history, industry, languages, music, and society. Students will travel through designated areas in North America. Before the trip, considerable reading in various fields pertinent to the course will be required. At the conclusion, papers will be required. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term. Not open to students who have credit in HIST 449.</td>
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<td>HIST</td>
<td>553</td>
<td>Modern Western Culture</td>
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<td>505</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>Selected studies in the development of cultural and intellectual movements in the fine arts, literature, scholarship, political and economic thought, science, and social reform from the eighteenth century to the present. Emphasizes themes and problems of major significance. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term.</td>
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<td>HIST</td>
<td>556</td>
<td>Cold War and Europe Since 1945</td>
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<tr>
<td>506</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>European origin of the Cold War and rebirth of a &quot;new&quot; but divided Europe with stress on East-West conflict, power blocs, international relations, and temporary decline of European influence; ideological, political, economic, and social development, including competition between Western and Sovietized Eastern Europe. Not open to students who have credit in HIST 456.</td>
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<td>HIST</td>
<td>558</td>
<td>Euro Strategy and Diplomacy</td>
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<tr>
<td>507</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>Examines, interprets, and evaluates British, German, Russian, French, Italian, and Austrian strategy and diplomacy--and economic, geographic, ideological, and military foundations of national power--focusing upon the &quot;German Question,&quot; Eurocentrism, imperialism, two world wars, renewed multipolarity, the European Community, and the Cold War. Not open to students who have credit in HIST 456.</td>
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<td>HIST</td>
<td>564</td>
<td>Byzantine Civilization</td>
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<td>508</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>Political, socioeconomic, and intellectual development of the Byzantine Empire from its origins to 1453. Emphasizes Byzantine religious and cultural contributions and relations with Western Europe, the Slavic peoples, and the Muslim world. Not open to students who have credit in HIST 464.</td>
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<td>HIST</td>
<td>569</td>
<td>World Civ Field Studies</td>
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<td>509</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>World civilizations--their history, art, economic life, educational systems, geography, industry, languages, music, and society--through varied travel programs. Advance reading and a summary paper are required to complement each year's travel program. Prerequisite: permission of the department chairperson. A total of 6 hours of credit may be earned, but no more than 3 in any one semester or term. Not open to students who have credit in HIST 469.</td>
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<td>HIST</td>
<td>575</td>
<td>Britain, 1485-1714</td>
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<tr>
<td>510</td>
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<td><strong>Course Short Title</strong></td>
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<td>A survey of the political, social, and economic history of England in the Tudor and Stuart periods. Emphasizes the rise of the national state, religious conflicts, the development of the power of Parliament, and overseas exploration and colonization. Not open to students who have credit in HIST 475.</td>
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<td>HIST</td>
<td>591</td>
<td>Topics in Middle East History</td>
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<tr>
<td>511</td>
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<td><strong>Course Short Title</strong></td>
<td></td>
<td>Selected issues and problems in the Middle Eastern world since Muhammad. Topics may include the expansion of Islam, slavery in the Middle East, the economic and social history of the Ottoman empire, the Arab/Israeli dispute, and recent national and international crises. Not open to students who have credit in HIST 491.</td>
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<td>HIST</td>
<td>593</td>
<td>History of Pre-modern Japan</td>
<td>199210</td>
<td>Analytical survey of premodern Japanese history to ca. 1600, focusing on the ideological, political, social, economic, and cultural developments that provide a foundation for the understanding of modern Japan. Not open to students who have credit in HIST 493.</td>
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<tr>
<td>HIST</td>
<td>596</td>
<td>Modern Japan, 1600 to Present</td>
<td>199210</td>
<td>Descriptive and analytical survey of political and economic developments, foreign policy, and social and cultural change in modern Japan with emphasis on conditions contributing to its rapid modernization, nationalist and expansionist movements, and dynamic postwar recovery. Not open to students who have credit in HIST 496.</td>
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<td><strong>Department of Mathematical Sciences</strong></td>
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<td><strong>Undergraduate courses</strong></td>
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<tr>
<td>MATH</td>
<td>335</td>
<td>Mathematical Models</td>
<td>201310</td>
<td>Construction of mathematical models for use with problems in physics, chemistry, biology, and economics. Emphasizes the construction and interpretation of models. Existing computer software will be used. Prerequisite: C- or better in MATH 166 and 217, or permission of the department chairperson.</td>
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<tr>
<td>MATH</td>
<td>459</td>
<td>Models in Financial Economics</td>
<td>201410</td>
<td>Mathematical and economic analysis of financial instruments and the management of financial and investment risk. Prerequisite: C- or better in MATH 320 and 351; or permission of the department chairperson.</td>
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<td><strong>Graduate courses</strong></td>
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<tr>
<td>MATH</td>
<td>559</td>
<td>Models in Financial Economics</td>
<td>201410</td>
<td>Mathematical and economic analysis of financial instruments and the management of financial and investment risk. Prerequisite: MATH 320 or 620 and 351 or 551; or permission of the department chairperson. Not open to students who have credit in MATH 459.</td>
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<td><strong>Department of Modern Languages and Classics</strong></td>
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<td>CC</td>
<td>205</td>
<td>Mythologies of the World</td>
<td>199010</td>
<td>Classical mythology (Greek and Roman) will represent Western tradition in a comparative study with other mythologies of the world. Emphasizes understanding mythologies as symbolic cultural systems expressing societal values.</td>
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<td>FR</td>
<td>102</td>
<td>Beginning French 2</td>
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<td>FR</td>
<td>301</td>
<td>French Conversation</td>
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<td><strong>Department of Natural Resources and Environmental Management</strong></td>
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<td><strong>Undergraduate courses</strong></td>
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<tr>
<td>NREM</td>
<td>101</td>
<td>Environment and Society</td>
<td>201410</td>
<td>Study of human roles in conservation resource management, environmental quality, and sustainable development. Effects of population and technology on environmental systems including air, energy, minerals, soil, water, vegetation, and wildlife. Environmental ethics, outdoor recreation, and public lands management are also covered. Laboratory and field activities.</td>
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<td>Course Short Title</td>
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<td>Course Description</td>
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<tr>
<td>530</td>
<td>NREM</td>
<td>201</td>
<td>Undergraduate Seminar</td>
<td>200210</td>
<td>Career and internship planning, resume development, overview of natural resource and environmental management, orientation to community environmental resources. Emphasizes professional development of NREM majors. Includes field trip and other activities outside of the classroom. Prerequisite: NREM 101 or equivalent. Open only to NREM majors; others by permission of the department chairperson.</td>
</tr>
<tr>
<td>531</td>
<td>NREM</td>
<td>203</td>
<td>Decision-Making in Nat Res Mgt</td>
<td>201010</td>
<td>Application of decision-making principles to natural resource management. Instruction in the use of basic microeconomic principles (investment, capital recovery, property rights, opportunity costs, discounting, compounding, prices) in practical resource management situations within the constraints of environmental laws and regulations. Uses simple algebraic and graphical tools.</td>
</tr>
<tr>
<td>532</td>
<td>NREM</td>
<td>205</td>
<td>Internatn'l Natural Resources</td>
<td>199610</td>
<td>An analysis of problems occurring as a result of development and use of natural resources worldwide. The role of resource management and conservation to enhance the carrying capacity of the earth. A case-study approach to the management of global environmental problems.</td>
</tr>
<tr>
<td>533</td>
<td>NREM</td>
<td>307</td>
<td>Env Mgt Developing Countries</td>
<td>200210</td>
<td>Survey of challenges facing management of urban environments and the rural-urban interface in the developing nations of Asia, Africa, Latin America, and Pacific Oceania. Features interdisciplinary approach with frequent guest speakers to discuss existing and potential management, economic, technical, and policy solutions in their regional, cultural, and historic contexts.</td>
</tr>
<tr>
<td>534</td>
<td>NREM</td>
<td>309</td>
<td>Human Dimensions Global Change</td>
<td>201010</td>
<td>Systematic exploration of major topics of human and environmental change from local to global scales, including: population, energy, agriculture, industry, technology, urbanization, water, climate, natural hazards, socioeconomic systems, land use, trade, marginalized societies, and biodiversity. Prerequisite: junior standing; or permission of the instructor.</td>
</tr>
<tr>
<td>535</td>
<td>NREM</td>
<td>331</td>
<td>Energy and Mineral Resources</td>
<td>199610</td>
<td>Appraisal of the problems, prospects, and societal and technical issues surrounding the use of energy and mineral resources. Emphasizes environmental problems and ecoenergetics, consideration of the natural resource base, distribution and production problems, conservation, alternative energy systems, resource policy, and research.</td>
</tr>
<tr>
<td>536</td>
<td>NREM</td>
<td>346</td>
<td>Indoor Environmental Quality</td>
<td>200410</td>
<td>Focuses on air quality in residential and nonresidential indoor environments; contaminants; health effects; sick buildings; diagnosis and measurement; mitigation measures. Lab and field experiences.</td>
</tr>
<tr>
<td>537</td>
<td>NREM</td>
<td>357</td>
<td>Internat Community Development</td>
<td>201010</td>
<td>Application of practical methods to problems of development in poor rural agrarian communities and environmental management in poor urban communities in Asia, Africa, and Latin America. Emphasizes face-to-face methodologies to the identification and development of workable solutions to resource and environmental problems of disadvantaged populations in developing nations.</td>
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<td><strong>Course Description</strong></td>
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<tr>
<td>NREM</td>
<td>387</td>
<td>Solid Hazardous Waste Mgt</td>
<td>199610</td>
<td>Delineation of solid and hazardous waste management in the United States. Waste reduction, recycling, processing, and disposal methods are discussed. Technical, political, and economic aspects of waste management. Effects of improper disposal on environmental quality. Prerequisite: junior standing or permission of the department chairperson.</td>
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<tr>
<td>NREM</td>
<td>392</td>
<td>Environmental Interpretation</td>
<td>199610</td>
<td>Develops skills and techniques necessary to the interpretation of ecological and environmental characteristics of earth systems. Emphasizes field work and creative presentation of concepts, and organization and management of interpretive programs including sites and facilities. Prerequisite: NREM 101 or its equivalent; junior standing.</td>
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<tr>
<td>NREM</td>
<td>401</td>
<td>Forest Plan</td>
<td>201410</td>
<td>Introduces students to the social, economic, and ecological forces that shape U.S. private forests. Takes an in-depth look at forest landowner values, attitudes, and perceptions of forests and linkages to management decision-making strategies and behaviors. Also introduces students to the skills they will need to interact with private forest landowners (PFLs) and forest management professionals. Students will develop forest stewardship plans based on interactions with PFLs on their property and information from forest professionals. Prerequisite: NREM 101, 211, and 221 or permission of instructor or department chairperson.</td>
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<tr>
<td>NREM</td>
<td>405</td>
<td>Integrated Resource Management</td>
<td>200210</td>
<td>Systems perspective on holistic or integrated planning and management of natural resources. Stresses data analysis and its role in the decision-making process. Prerequisite: all core courses in natural resources and environmental management (or concurrent enrollment); senior standing.</td>
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<tr>
<td>NREM</td>
<td>422</td>
<td>Soil Quality</td>
<td>201410</td>
<td>Chemical, physical, and biological properties of soil that affect plant production and other land uses. Emphasizes nutrient cycles in natural and cropped systems. Use and fate of pesticides. Land application of agricultural and urban wastes. Prerequisite: NREM 221 or its equivalent; CHEM 111 or its equivalent or permission of the department chairperson.</td>
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<tr>
<td>NREM</td>
<td>427</td>
<td>Soil Conservation and Mgmt</td>
<td>201410</td>
<td>Stresses principles and methods of control of soil erosion using basic soil concepts. Studies management systems and individual practices with special emphasis on soil resource maintenance. Prerequisite: NREM 221 or permission of the department chairperson.</td>
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<tr>
<td>NREM</td>
<td>488</td>
<td>Site Assessment Remediation</td>
<td>201010</td>
<td>Experience with Phase I and Phase II environmental site assessments. Conventional and innovative technologies for remediation of contaminated soils and groundwater. Review of relevant environmental regulations. Some environmental chemistry. Prerequisite: CHEM 231 or permission of the instructor. Open only to juniors or seniors.</td>
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**Graduate courses**
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<tr>
<td>546</td>
<td>NREM</td>
<td>501 Forest Plan</td>
<td>201410</td>
<td>Introduces students to the social, economic, and ecological forces that shape U.S. private forests. Takes an in-depth look at forest landowner values, attitudes, and perceptions of forests and linkages to management decision-making strategies and behaviors. Also introduces students to the skills they will need to interact with private forest landowners (PFLs) and forest management professionals. Students will develop forest stewardship plans based on interactions with PFLs on their property and information from forest professionals.</td>
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<tr>
<td>547</td>
<td>NREM</td>
<td>507 Env Mgt Developing Countries</td>
<td>200310</td>
<td>Survey of challenges facing management of urban environments and the rural-urban interface in the developing nations of Asia, Africa, Latin America, and Pacific Oceania. Features interdisciplinary approach with frequent guest speakers to discuss existing and potential management, economic, technical, and policy solutions in their regional, cultural, and historical contexts. Not open to students who have credit in NREM 307.</td>
</tr>
<tr>
<td>548</td>
<td>NREM</td>
<td>522 Soil Quality</td>
<td>200710</td>
<td>Chemical, physical, and biological properties of soil that affect plant production and other land uses. Emphasizes nutrient cycles in natural and cropped systems. Use and fate of pesticides. Land application of agricultural and urban wastes. Prerequisite: CHEM 111 or equivalent; or permission of the department chairperson. Not open to students who have credit in NREM 307.</td>
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<tr>
<td>549</td>
<td>NREM</td>
<td>527 Soil Conservation and Mgmt</td>
<td>200710</td>
<td>Principles and methods of controlling soil erosion, stressing use of basic soil concepts. Management systems and individual practices, with special emphasis on soil resource maintenance. Not open to students who have credit in NREM 427.</td>
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<tr>
<td>550</td>
<td>NREM</td>
<td>531 Energy and Mineral Resources</td>
<td>199510</td>
<td>Appraisal of the problems, prospects, and societal and technical issues surrounding the use of energy and mineral resources. Emphasizes environmental problems and ecoenergetics, consideration of the natural resource base, distribution and production problems, conservation, alternative energy systems, resource policy, and research. Not open to students who have credit in NREM 331.</td>
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<tr>
<td>551</td>
<td>NREM</td>
<td>541 Air Quality</td>
<td>199510</td>
<td>Focuses on the contamination of the atmospheric environment. Topics include major contaminants; measurement techniques; dispersion; effects on the atmosphere, human health, vegetation, and materials; regulatory requirements and practices; control measures; noise pollution. Lab and field experiences. Not open to students who have credit in NREM 241.</td>
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<tr>
<td>552</td>
<td>NREM</td>
<td>546 Indoor Environmental Quality</td>
<td>200310</td>
<td>Focuses on problems in residential and nonresidential indoor environments; contaminants; health effects; sick buildings; diagnosis and measurement; mitigation measures. Lab and field experiences. Not open to students who have credit in NREM 346.</td>
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<tr>
<td>553</td>
<td>NREM</td>
<td>557 Internat Community Development</td>
<td>201110</td>
<td>Application of practical methods to problems of development in poor rural agrarian communities and environmental management in poor urban communities in Asia, Africa, and Latin America. Emphasizes face-to-face methodologies to the identification and development of workable solutions to resource and environmental problems of disadvantaged populations in developing nations. Not open to students who have credit in NREM 357.</td>
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<td>NREM 697</td>
<td>Advanced Topics in Env NR Mgt</td>
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<td>RELS 380</td>
<td>Religion and Ethics</td>
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<td>Early West Pol Thought</td>
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<td>Environmental Law and Policy</td>
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<td><strong>585</strong> POLS</td>
<td>395</td>
<td>Politics of the Global Economy</td>
<td>200610</td>
<td>Historical and theoretical introduction to the politics of international trade and payments, including barriers to trade, exchange rates, multinational corporations, financial crises, international economic institutions, and the problems of economic development. Prerequisite recommended: POLS 293.</td>
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<tr>
<td><strong>586</strong> POLS</td>
<td>466</td>
<td>Admin Prob in State Gov</td>
<td>200610</td>
<td>An analysis of administrative procedures and organizational behavior at the state level. Special emphasis is given to the provision of government services and functions in the major areas of budgeting and taxation, education, environmental protection, public health, and public works. Prerequisite: POLS 237 or 350 or permission of the department chairperson.</td>
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<td><strong>587</strong> Graduate courses</td>
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<td><strong>588</strong> POLS</td>
<td>512</td>
<td>Early West Political Thought</td>
<td>198810</td>
<td>Analysis of political thought of the early Mediterranean and medieval worlds that became the foundation of modern political theories and systems of the West. Emphasizes writings by Plato, Aristotle, Cicero, St. Augustine, St. Thomas Aquinas, and Machiavelli. Not open to students who have credit in POLS 312.</td>
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<td><strong>589</strong> POLS</td>
<td>538</td>
<td>Metropolitan Problems</td>
<td>198810</td>
<td>Cities and metropolitan communities; the nature, characteristics, functions, governmental structure, intergovernmental relations, social makeup and problems, economic base, decision-making structure, and other related topics; the present and future roles of planning and citizen participation in the entire community. Prerequisite: POLS 238. Not open to students who have credit in POLS 438.</td>
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<td><strong>590</strong> POLS</td>
<td>547</td>
<td>Environmental Law and Policy</td>
<td>198810</td>
<td>The legal system's response to conflicting demands upon environmental resources. Composition of environmental problems, control issues, policy formulation, and legal remedies. Not open to students who have credit in POLS 347.</td>
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<td><strong>591</strong> POLS</td>
<td>566</td>
<td>Admin Problems in State Gov</td>
<td>198810</td>
<td>Administrative procedures and organizational behavior at the state level. Emphasizes the provision of government services and functions in budgeting and taxation, education, environmental protection, public health, and public works. Prerequisite recommended: POLS 237 or 350. Not open to students who have credit in POLS 466.</td>
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<td><strong>592</strong> POLS</td>
<td>642</td>
<td>Problems in Public Policy</td>
<td>200710</td>
<td>Current political, economic, and social problems in the United States. Examines different approaches to the study of public policy and problems inherent in carrying out the basic stages of the policy process including issue definition, choices among alternatives, agenda setting, decision-making, implementation, and evaluation. Prerequisite recommended: POLS 130.</td>
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<td><strong>594</strong> Department of Psychological Science</td>
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<td><strong>598</strong> Department of Social Work</td>
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<td><strong>599</strong> Undergraduate courses</td>
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<td>Department of Counseling Psychology and Guidance Services</td>
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<td>198810</td>
<td>Introduction to various theories and approaches to family therapy including psychoanalytic, systems, strategic, structural, communications, and behavioral. Examination of research in family therapy. Pre-practicum experience in conducting family assessment interviews and family counseling interviews.</td>
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<td>Department of Educational Leadership</td>
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<td>Creative Thinking</td>
<td>201310</td>
<td>Theories and strategies for fostering the creative self and developing creative thinking. Analyzes the effects of personality characteristics and of various biological, cognitive, motivational, and environmental conditions on the development of creative thinking.</td>
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<td>Social Emotional Needs Gifted</td>
<td>201310</td>
<td>Examination of the research related to gifted students and the social and emotional dimensions that are unique to this population. Emphasis is placed on understanding the lived experiences of gifted children as well as social interventions and curricular strategies that can be employed within various educational environments.</td>
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