

- ET 444. Computer Architecture (s) 3 cr. (2+3P)
The design, development, implementation, documentation and formal demonstration of a microprocessor-based application to solve an engineering problem. Emphasis on microprocessor architectural concepts and software interfacing. A student project is required. Prerequisites: E-T 344, E T 398, and senior standing in E T.
- ET 454. Advanced Construction Technology 3 cr.
Contractor design and construction methods concerning formwork, special foundations, shoring, excavations, pilings, steel erection, and various material handling components. Prerequisite: E T 354 and E T 355.
- ET 455. Cost Estimating and Scheduling 3 cr.
Methods and techniques in construction estimating including final bid preparation, construction planning and scheduling using various network methods and other techniques. Prerequisite: junior or senior standing in E T.
- ET 456. Analysis of Physical Security Systems 3 cr.
The design, analysis and implementation of security systems and subsystems including threat detection and response, information and communications security, and physical protection. Prerequisite: junior standing.
- ET 457. Introduction to Information Security 3 cr.
Internet vulnerabilities including the Internet worm, buffer overflows, denial of service, hacking toolkits. Social engineering of information, integration of PC applications, JAVA vulnerabilities, cookies, credit card fraud, and system administration. Networking topologies and configurations. Prerequisites: E T 377 or consent of instructor.
- ET 458. Database Design and Applications 3 cr.
Structured Query Language is introduced as the basis for the development of relational database management systems. The course includes database design, administration, security issues, and using the systems developed to access data in various computer and communication environments. Prerequisite: senior standing in ET or consent of instructor.
- ET 462. Operating Systems and Interfacing 3 cr.
Concepts relating to operating systems applications and interfacing with an introduction to systems administration. Prerequisite: E T 362 and junior standing.
- ET 463. Computer Systems Administration 3 cr.
A continuation of topics in computer systems administration from E T 462. Prerequisite: E T 462.
- ET 468. Applications of Electronic Devices 3 cr. (2+3P)
Study of the applications of analog and digital devices as they are commonly used in data acquisition systems. Includes basic construction and diagnostic skills. Prerequisite: senior or graduate standing.
- ET 469. Data Acquisition and Computer Interfacing 3 cr. (2+3P)
Survey of computers and associated hardware available to the research community. Includes practical digital signal processing methods and an overview of transducers. Prerequisites: senior or graduate standing and E T 468 or consent of instructor.
- ET 470. Data Analysis and Acquisition 3 cr. (2+3P)
The use of hardware and software to establish a unified and efficient data collection and analysis system. Prerequisites: senior or graduate standing and E T 469 or consent of instructor.
- ET 477. Computer Networking II 3 cr. (2+2P)
Advanced concepts in computer network design and applications including managing the campus network, virtual LANs (VLAN), network security, wireless networks, high-speed optical networks, voice over IP, and Linux networking. Prerequisite: E T 377.
- ET 479. Developing and Managing Educational Networks 3 cr.
For educators who plan to manage technology resources in schools. Focuses on operating systems, network capabilities and management, connections and transfer of files between different computer platforms, and managing peripheral devices. Prerequisite: EDUC 568 or consent of instructor. Same as EDLT 529.
- ET 480. Design and Problem Solving in Engineering and Technology 3 cr.
Development of problem-solving and critical-thinking abilities through design, analysis, and implementation of projects in selected areas of technology and engineering. Intended for mathematics, science, and technology educators. Prerequisite: consent of instructor. May be repeated for a maximum of 6 credits.
- ET 482. Concepts in Computer Integrated Manufacturing 3 cr. (2+2P)
Current manufacturing concepts regarding the data, hardware, and software necessary for a computer integrated manufacturing system. Prerequisites: senior standing and consent of instructor. Same as I E 482 and M E 482.
- ET 490. Selected Topics 1-3 cr.
Selected topics in engineering technology and related areas. Prerequisite: consent of instructor.
- **FCS—Family and Child Science**
Department of Family and Consumer Sciences
- FCS 181. Interpersonal Skills in Intimate Relationships 3 cr.
Developing social skills within friendships, dating relationships, marriage, parenting, and families.
- FCS 200. Special Topics 1-4 cr.
Specific subjects and credits announced in the *Schedule of Classes*. Maximum of 4 credits per semester and a grand total of 9 credits.
- FCS 300. Special Topics 1-4 cr.
Specific subjects and credits announced in the *Schedule of Classes*. Maximum of 4 credits per semester and a grand total of 9 credits.
- FCS 380. Family Dynamics 3 cr.
The dynamics of family relationships and changes influencing contemporary families. Interaction between the family and other social systems will be examined. Open to nonmajors.
- FCS 381. Middle Childhood Development in the Family 3 cr.
Research and theory relevant to the physical, mental, social, and emotional development of the child from age five to age twelve. Attitudes, knowledge, and skills related to working with school-age children in the family system. Observation in a variety of settings may be required.
- FCS 383. Parenting and Child Guidance 3 cr.
Theories, principles, and skills essential for parents and professionals in guiding children within the family system. Problem prevention techniques are stressed. Prerequisite: either PSY 201G, SOC 101G or C EP 110G or consent of instructor.
- FCS 424. Field Experience: Issues and Ethics 2-4 cr.
Supervised work experience in community agencies providing services to family systems. Discussion of professional issues and ethical dilemmas. A total of 8 credits must be taken. Prerequisites: FCS 380 or equivalent, junior standing, and an overall GPA of at least 2.5 or consent of instructor. Restricted to majors.
- FCS 446. Adolescent Development and the Family 3 cr.
Research and theory relevant to the physical, mental, social, and emotional development of the child from age 12 to age 18. Attitudes, knowledge, and skills related to working with adolescents in the family system. Observation in a variety of settings may be required. Prerequisites: either 6 credits of social science or consent of instructor.
- FCS 447. Infancy and Early Childhood in the Family 3 cr.
Research and theory relevant to prenatal development and the physical, mental, and socio-emotional development of the child from birth to age five. Attitudes, knowledge, and skills needed for working with young children and their families. Prerequisite: either 6 credits of social science or consent of instructor. Open to nonmajors.
- FCS 448. The Aging Family 3 cr.
Research and theory related to the physical, mental, social, and emotional development of older adults. Attitudes, knowledge, and skills related to working with older adults in the family system, including normative, and nonnormative transitions. Prerequisites: either 6 credits of social science and FCS 380, or consent of instructor.
- FCS 449G. Family Ethnicities and Subcultures 3 cr.
Comparative study of American family subsystems with respect to selected social, economic, and cultural backgrounds. Interaction of these subsystems in American society. Differentiated assignments for graduate students.
- FCS 462. Family Communications 3 cr.
Same as COMM 462, W S 462.
- FCS 492. Special Problems 1-4 cr.
Individual research in a selected subject area of family and consumer sciences. Maximum of 4 credits per semester and a total of 6 credits.
- **FCSC—Family and Consumer Sciences**
Department of Family and Consumer Sciences
- FCSC 111. Freshmen Orientation 1 cr.
Orientation to university life, including available resources and methods to promote success at NMSU. General exposure to fields in agriculture and home economics. Open to all freshmen and transfer students. Graded S/U.

- FCSC 300. Special Topics** 3 cr.
Specific topics and credits to be announced in the *Schedule of Classes*. May be taken for a maximum of 3 credits per semester and a total of 9 credits. Restricted to HNFS, FCS, FCSE, CTFM majors.
- FCSC 391H. Junior Honors Seminar** 1 cr.
Readings, reports, and discussions of selected topics.
- FCSC 400. Research Methods in Family and Consumer Sciences** 3 cr.
Introduction to research design and methodology in Family and Consumer Sciences. Overview of common research designs and data collection strategies. Prepares students to critique published research and perform basic skills including hypotheses development and conducting a literature search. Prerequisite: overall GPA of at least 2.5, junior or senior standing or consent of instructor. Restricted to HNFS, FCS, FCSE, CTFM.
- FCSC 409H. Senior Honors Thesis** 2 cr.
Limited to undergraduates from FCSC 391H. An independent literary laboratory of field study conducted throughout the student's senior year. Student should register both fall and spring. Prerequisite: FCSC 391H. May be taken for a maximum of 2 credits per semester and a total of 4 credits.
- FCSC 425. Senior Seminar in Family and Consumer Sciences** 1 cr.
Prepares students for professional roles in family and consumer sciences. Includes cover letters, resumes, interviewing techniques, professionalism, job strategies and preparation and presentation of student portfolios. Prerequisite: senior standing. Restricted to CTFM, FCS, FCSE, HNFS majors. Graded S/U.
- **FCSE—Family and Consumer Sciences Education**
Department of Family and Consumer Sciences
- FCSE 200. Special Topics** 1-4 cr.
Specific subjects and credits to be announced in the *Schedule of Classes*. Maximum of 4 credits per semester and a grand total of 9 credits.
- FCSE 245. Overview of Family and Consumer Sciences Teaching** 3 cr.
Overview of planning and teaching skills. Supervised experiences in observing and directing the learning of secondary family and consumer sciences students. Philosophy and history of the profession.
- FCSE 300. Special Topics** 1-4 cr.
Specific subjects and credits to be announced in the *Schedule of Classes*. Maximum of 4 credits per semester and a grand total of 9 credits.
- FCSE 345. Management Concepts in Family and Consumer Sciences Teaching** 3 cr.
Incorporation and application of management concepts in family and consumer sciences subject matter. Practical experience teaching management and ways to use management skills to plan, implement, and evaluate the teaching-learning transaction.
- FCSE 348. Teaching in Informal Family and Consumer Sciences Settings** 3 cr.
Learning principles and theories with application in informal family and consumer sciences education situations. Includes supervised experience in use of teaching strategies. Prerequisite: overall GPA of at least 2.5 or consent of instructor.
- FCSE 408. Field Experience—Extension** 1-9 cr.
Experience in program planning and implementation with 4H groups, homemaker groups, and other community groups in extension programs. Practical experience with supervision by resident faculty as well as supervisor at the work site. Performance at work site will be graded in accordance with university standards. Attendance at one weekly class session required. Prerequisite: C or better in FCSE 446 or consent of instructor. May be repeated for a maximum of 9 credits.
- FCSE 445. Vocational Programs for Youth and Adults** 3 cr.
History and development of vocational education programs. Ancillary functions of family and consumer sciences teachers. Experiences in extension programs and teaching.
- FCSE 446. Teaching Methods I for Family and Consumer Sciences** 3 cr.
Objectives, content, and organization of family and consumer sciences curriculum in high schools; materials and methods of teaching. Prerequisites: FCSE 245 and FCSE 345 and an overall GPA of at least 2.5, or consent of instructor. Restricted to majors.
- FCSE 447. Teaching Methods II for Family and Consumer Sciences** 3 cr.
Planning, preparation, and strategies for teaching family and consumer sciences in the secondary schools. Preparation for employment. Prerequisites: FCSE 245, FCSE 345, FCSE 445, FCSE 446 and an overall GPA of at least 2.5, or consent of instructor. Restricted to majors.
- FCSE 448. Supervised Teaching in Family and Consumer Sciences** 9 cr.
Fourteen weeks of full-time supervised teaching in selected high schools. Experience in community activities. Prerequisite: FCSE 446, an overall GPA of at least 2.5, and consent of instructor.
- FCSE 492. Special Problems** 1-4 cr.
Individual research study in a selected subject area of family and consumer sciences. Maximum of 4 credits per semester and 6 credits toward degree.
- **FIN—Finance**
- FIN 206. Introduction to Finance** 3 cr.
Theory and techniques of financial management for business firms. Includes application of financial analysis tools and techniques needed for business financial administration and decision making. Prerequisites: either ACCT 202 and ECON 251, or ECON 252 and MATH 120, or consent of instructor. Branch campuses only.
- FIN 210. Financial Planning and Investments** 3 cr.
Individual financial planning and related financial markets and institutions. Branch campuses only.
- FIN 303G. Personal Financial Planning and Investing in a Global Economy** 3 cr.
Provides a framework for successful personal financial planning within an individual's career and income. Covers personal money management, federal and state taxation, the mathematics of finance and credit, housing, inflation, insurance, savings, and investments.
- FIN 311. Financial Futures Markets** 3 cr.
Same as AG E 311.
- FIN 322. Principles of Insurance** 3 cr.
Aspects and use of different types of insurance. Essentials of insurable risk. Prerequisite: FIN 341.
- FIN 323. Life and Health Insurance** 3 cr.
Risk management, coverages, legal concepts, mechanics and mathematics, beneficiary designations, and other topics related to life and health insurance. Prerequisite: FIN 322.
- FIN 324. Property and Liability Insurance** 3 cr.
History, basis of growth, policy facts and applications, risk management and other topics related to property and liability insurance. Prerequisite: FIN 322.
- FIN 325. Real Estate Principles and Law I** 3 cr.
Real estate law and the fundamental aspects of the real estate purchase transaction and the real estate lease agreement. Topics include real estate brokerage, marketing of real estate, fundamental legal aspects of real estate, present and future interests, air and water rights, methods of transfer, basics of financing and liens, and real estate leases. Same as BLAW 325.
- FIN 341. Financial Analysis and Markets** 3 cr.
Financial analysis for business financing and investing decisions. Prerequisites ACCT 251 and ACCT 252, ECON 251 and ECON 252, MATH 121 or MATH 230, EST 251 or EST 311 or STAT 251.
- FIN 349. Employee Benefits and Retirement Planning** 3 cr.
Management of group health, group life, retirement, and emerging employer-sponsored benefit plans. Emphasis on plan design and administration, with special attention to cost, funding, regulation, and tax considerations. Prerequisite: FIN 322.
- FIN 350. Real Estate Principles and Law II** 3 cr.
Advanced real estate issues including real estate financial management, legal environment, and government regulation. Topics include real estate financing, mortgage markets, residential ownerships issues, commercial real estate investment, commercial leases, real property insurance, real estate development and subdivision law, real property management, and property valuation issues. Prerequisite: BLAW 325 or FIN 325.
- FIN 355. Investments** 3 cr.
Analysis of investment risks and rewards and of the problems of portfolio selection and management. Operation of the securities market. Prerequisite: FIN 341 or consent of instructor.
- FIN 360. Financial Information Technology** 3 cr.
Integrated use of electronic financial information resources with spreadsheet and word processing applications in investigating financial issues and solving financial problems. Prerequisites: FIN 341 or consent of instructor.
- FIN 385. Analysis of Financial Markets and Institutions** 3 cr.
Analysis of the financial system, emphasizing its institutions and instruments. Prerequisite: FIN 341 or consent of instructor.
- FIN 391. Finance Internship and Cooperative Education I** 1-3 cr.
Introduction and application of finance to the work environment. Open only to students majoring in finance. Prerequisite: consent of instructor. Restricted to majors.