

Professors:

JACQUELYN BRIDGEMAN, B.A. Stanford University 1996; J.D. University of Chicago 1999; Associate Dean for Academic Affairs and Professor of Law 2008, 2002.

JOHN M. BURMAN, B.A. University of Wyoming 1978; J.D. University of Minnesota 1981; Carl M. Williams Professor of Law and Ethics 1993, 1989.

DIANE E. COURSELLE, B.A. Fordham University 1987; J.D. Loyola University-New Orleans 1991; Winston S. Howard Distinguished Professor of Law 2006, 1999.

JAMES M. DELANEY, B.A. University of Washington 1985; J.D. Gonzaga University School of Law 1992; LL.M. in Taxation, University of Florida 1997; Professor of Law 2013.

DEBRA L. DONAHUE, B.S. Utah State University 1974; M.S. Texas A&M University 1977; J.D. University of Colorado 1989; Professor of Law 1999, 1993.

MICHAEL DUFF, B.A. West Chester University 1991; J.D. Harvard University 1995; Professor of Law 2012.

STEPHEN D. EASTON, B.A. Dickinson State University; J.D. Stanford University; Professor of Law 2009.

STEPHEN M. FELDMAN, B.A. Hamilton College 1977; J.D. University of Oregon 1982; J.S.M. Stanford University 1986; Jerry W. Housel/Carl F. Arnold Distinguished Professor of Law 2002.

SAM KALEN, B.A. Clark University 1980; J.D. Washington University 1984; Professor of Law 2014, 2009.

TIMOTHY G. KEARLEY, B.A. University of Illinois 1971; J.D. 1976; M.L.L. University of Washington 1977; Professor of Law and Director, Law Library 1993.

NOAH B. NOVOGRODSKY, B.A. Swarthmore College 1992; J.D. Yale Law School 1997; Professor of Law 2013, 2009.

JERRY R. PARKINSON, B.S. Northern State College 1976; M.P.A. University of South Dakota 1981; J.D. University of Iowa 1985; Professor of Law 1998.

MARY D. PRIDGEN, B.A. Cornell University 1971; J.D. New York University 1974; Professor of Law 1985, 1983; Carl M. Williams Professor of Law and Social Responsibility 2002.

ALAN ROMERO, B.A. Brigham Young University 1990; J.D. Harvard University 1993; Professor of Law 2007, 2003.

MICHAEL R. SMITH, B.S. Florida State University 1982; J.D. University of Florida 1985; Professor of Law 2006.

ELAINE A. WELLE, B.A. University of Colorado 1977; M.B.A. 1981; J.D. University of Arizona 1986; Centennial Distinguished Professor of Law 1999, 1993.

Assistant Professors:

KENNETH CHESTEK, B.A. Pennsylvania State University 1975; J.D. University of Pittsburgh School of Law 1979; Assistant Professor of Law 2012.

DANIELLE R. COVER, B.A. University of Maryland 1994; J.D. Tulane University School of Law 1997; Assistant Professor of Law 2014; Director of Legal Services Clinic.

CASEY D. DUNCAN, B.A. Hillsdale College 2001; M.A. University of Missouri-Columbia 2006; J.D. University of Minnesota 2004; Assistant Professor of Law 2015; Law Library.

MARK GLOVER, B.A. Washington University in St. Louis 2002; J.D. Boston University School of Law 2008; LL.M. Harvard Law School 2011; Assistant Professor of Law 2013.

DARRELL D. JACKSON, B.A. College of William and Mary 1987; J.D. George Mason University School of Law 1990; Ph.D. University of Colorado School of Education 2011; Assistant Professor of Law 2013.

SUZAN M. PRITCHETT, B.A. Grinnell College 2001; M.A. University of Sussex 2004; J.D. University of Iowa 2008; Assistant Professor of Law 2015; Director of International Human Rights Clinic.

TARA RIGHETTI, B.A. University of Colorado Boulder 2005; J.D. 2007; Assistant Professor of Law 2014.

JASON ROBISON, B.S. University of Utah 2003; J.D. University of Oregon 2006; LL.M. Harvard Law School 2009; S.J.D. 2013; Assistant Professor of Law 2014.

Academic Professionals:

DEBORA PERSON, B.A. Arizona State University 1981; M.L.S. Rutgers University 1992; Library Associate 1993; Administrative Law Librarian 2005, 1994.

DONA PLAYTON, B.S. University of Wyoming 1989; J.D. 1993; Director, Domestic Violence Legal Assistance Project; Assistant Director, Legal Services Program; Associate Lecturer 2012.

TAWNIA PLUMB, B.A. University of Wyoming 1996; M.L.I.S. University of Texas at Austin 1998; Electronic Services and Assistant Librarian 2004.

TEMPLE STOELLINGER, B.S. University of Wyoming 2004; J.D. 2010; Co-Director, Center for Law and Energy Resources in the Rockies 2013.

Professors Emeritus

John Burman, Harvey Gelb, Joel Selig

The College of Law was founded in 1920. The goal of the college is to provide a sound and thorough education in the law that will prepare the student to practice law in accordance with the highest standards of professional competence and responsibility. The emphasis in instruction is on analysis and understanding of legal principles and the development of skills necessary to the practice of the profession. The course of study will prepare a graduate to practice in any jurisdiction which has adopted the Anglo-American system of law.

The curriculum of the College of Law consists of three years of study within the college. Required courses necessary to basic legal knowledge make up the first two semesters of study, while courses in the final four semesters are largely elective. Students become eligible to receive the Juris Doctor (J.D.) degree upon successful completion of 90 semester credit hours of law courses with a grade point average of at least 2.0.

The college acts as a law center for Wyoming. It serves lawyers, judges, and government by a program of continuing legal education for attorneys and others interested in significant legal developments, by research projects aimed at improving state law, and by publishing the Wyoming Law Review.

Accreditation

The college is approved by the American Bar Association and its graduates are eligible for admission to the bar in every state. A student planning to practice in a particular state should check its rules for admission to the bar.

The college is also a member of the Association of American Law Schools. Membership is conditioned upon the maintenance of an adequate teaching staff and library, the offering of a sound educational program and adherence to prescribed standards for the admission and graduation of students.

Prelegal Curriculum

There is no prescribed or required set of courses for prelegal work. A student must usually have a B.A. or B.S. degree before beginning the professional study of law. There are no restrictions on the field in which the degree is earned.

The objective of prelegal study should be to acquire knowledge and skills useful in the study and practice of law. College study should prepare the student for law school by developing language comprehension and use, understanding of political, economic, social and cultural institutions, and the ability to think logically and creatively. Courses promoting these objectives are included in the basic requirements for most undergraduate degrees. The choice of a major should be determined by the student's academic interest and professional objective in law.

Valuable background may be acquired through the study of English, history, philosophy, economics, political science, psychology, sociology, business administration, mathematics and the natural sciences.

For additional information, see the College of Law web site, (www.uwyo.edu/law).

Admission Requirements and Procedures

Admission to the professional curriculum in law is granted by the admissions committee of the College of Law. The College of Law restricts the number of entering students to a class size consistent with its facilities and its educational objectives. In evaluating an application, the committee considers the applicant's undergraduate college scholastic record and score on the Law School Admission Test (LSAT).

Other criteria relevant to the probability of success in the study and practice of law will also be considered.

1. Prior to beginning work in the College of Law, applicants must have a bachelor's degree from an accredited college or university, unless they have requested and been granted one of the following exceptions:
 - a. An applicant who needs not more than 6 semester hours of college credit to qualify for a bachelor's degree may be admitted in exceptional cases to law school if the committee determines that the applicant has sufficient education and preparation for the study of law; has an

outstanding undergraduate scholastic record; and has an approved program signed by the appropriate undergraduate official indicating that the remaining requirements for the bachelor's degree may be met by summer school attendance or by other means that will not interfere with the study of law.

- b. In very exceptional cases, an applicant without a bachelor's degree may be admitted as a special student and become a candidate for the professional degree in law. The applicant must furnish evidence to satisfy the committee that age, experience, and training have equipped the individual to engage successfully in the study of law despite the lack of the required prelegal education.

2. Every applicant must take the Law School Admission Test. A packet giving information about the test, the dates on which it is given, and centers at which it can be taken, sample questions and an application form, may be obtained from Law School Admission Council, Box 2000, Newtown, PA 18940, by phone at (215) 968-1001, online at www.lsac.org.
3. Every applicant must register with the Law School Admission Council Credential Assembly Service, CAS. Registration may be done through the LSAC website (www.lsac.org). The CAS will prepare a report that is transferred to the college.
4. Every applicant must complete the electronic University of Wyoming College of Law Application through LSAC between October 1 and March 1. Applications received by December 1 will be considered for early admission.
5. Official transcripts sent directly to the College of Law from each college attended must be on file in the Admissions Office at least 30 days before the student's registration date.

Application Deadline

An initial entering class will be selected from completed applications on file on March 1. Students who submit an application by December 1 will be considered for early admission. An application is complete only when the college has received the LSAT score, the CAS report, and the College of Law application form. Applications completed after March 1 will be considered in filling vacancies which occur in the entering class initially selected.

Admission With Advanced Standing

Transfer students are admitted only when the College of Law facilities and curriculum permit. A transfer student may transfer up to the number of credits the student could have earned had the student completed his or her first year at the University of Wyoming College of Law. Transfer credit will be given only for courses in which the student earned a grade of C or higher. Applicants admitted must satisfy the requirements for graduation established by the College of Law, including such other requirements as may be imposed as a condition of admission. Students interested in transferring should contact the College of Law for information concerning application procedures.

Joint Degree Programs

The College of Law, in conjunction with the College of Arts and Sciences, offers a joint J.D./M.P.A. program. The College of Law also offers a joint J.D./M.A. in Environment and Natural Resources in conjunction with the Haub School of Environment and Natural Resources. The College of Law also offers a joint J.D./M.B.A. program in conjunction with the College of Business. For information regarding these joint degree programs, contact the College of Law.

Nonprofessional Degree Students

Graduate students from other colleges of the University of Wyoming may be permitted to take one or more law courses on an S/U basis for non-law credit when the following conditions are met: the law course taken is acceptable for their degree program and the prior written approval of the professor assigned to the course and the Associate Dean of Academic Affairs of the College of Law has been obtained. In order to obtain audit or visitor privileges, students must obtain prior written approval of the professor assigned to the course and the Associate Dean of Academic Affairs of the College of Law. For further information and requirements contact the Associate Dean of Academic Affairs, College of Law, Dept. 3035, 1000 E. University Ave., Laramie, WY 82071.

Course descriptions may be obtained online at www.uwyo.edu/law.

Law (LAW)

6110. Contract I. 3. A study of the elements of simple contracts, including offer and acceptance, consideration, conditions, defenses, and damages. The impact of the Uniform Commercial Code on contracts is considered.

6120. Property I. 3. Covers two general areas. The first area is the rights that define property ownership, in relation to neighbors, the world, and others with interests in the property. Subjects include rights to use the land and its products, estates, concurrent ownership, and landlord-tenant law. The second area is private limitations on those rights, in the form of covenants and easements.

6130. Torts I. 3. A study of the methods and policies for allocating risks of harm; intentionally inflicted harms; negligence in its general aspects and its application to products liability, landowners, and automobile traffic; emotional harms; defamation; and fraud.

6140. Criminal Law. 3. The sources of criminal law and the purposes of criminal punishment, the constituent parts of criminal conduct, including act (or omission), culpable mental state, result, and causation. These general principles are brought to bear on homicide and sexual assault. Also considers common defenses to criminal charges, including self-defense, necessity, duress, insanity, and intoxication. Students are required to consider the constitutional limits of the criminal law and the relationship of substantive principles to practice.

6150. Judicial Remedies. 3.

6160. Legal Writing I. 2. In this course students are introduced to the fundamentals of legal reasoning and analysis and the basics of legal writing.

6165. Legal Research. 1. Introduction to paper and electronic resources that cover primary & secondary legal materials, including case law, statutes, agency regulations for federal and state jurisdictions, & treatises, journals, restatements, and other secondary sources. Discusses research plans and develops brief research strategies for hypothetical situations.

6170. Introduction to Law. 1. Provides first-semester students with an introduction to the procedures and structure of the legal system to facilitate law study during the first year of law school. Additionally, the course provides students with an introduction to preferred learning methods for efficient law school study.

6210. Contracts II. 3. A study of the elements of simple contracts, including offer and acceptance, consideration, conditions, defenses, and damages. The impact of the Uniform Commercial Code on contracts is considered.

6220. Property II. 2. First covers some private and public limitations on owners' property rights, primarily easements and zoning. The rest of the semester deals with acquiring ownership rights, possession and transfers, including the law relating to deeds and titles.

6230. Torts II. 2. Picks up where Torts I ends. Principal areas of coverage typically include wrongful death, defenses, vicarious liability, strict liability, nuisance, products liability and defamation. If time permits we will also cover privacy, misrepresentation and other topics.

6240. Civil Procedure I. 3. A study of modern practice in civil cases under Rules of Civil Procedure and other sources of procedural law. Civil Procedure I and its continuation, Civil Procedure II, cover all aspects of jurisdiction and other issues bearing on what court(s) may hear a case; choice of state or federal law; pleading; joinder of claims and parties; class actions; discovery and other pre-trial procedures; summary judgment; non-jury and jury trials; appeals; and claim and issue preclusion.

6250. Constitutional Law I. 2. Constitutional Law I is divided into two parts. Part I focuses on governmental structures. Part II begins our coverage of individual rights and liberties. Part I's coverage includes the power of judicial review, separation of powers, federalism, and congressional powers. Part II focuses on equal protection.

6260. Legal Writing II. 2. This course builds on the first semester Legal Writing course by introducing students to: (1) more sophisticated aspects of legal reasoning, analysis and legal research; (2) the basics of persuasive legal writing; (3) the basics of appellate procedure and an appellate brief; and (4) the basics of oral advocacy.

6310. Business Organizations. 3. Studies the law of agency relationships and business associations including partnerships, limited liability companies and corporations. Also considers the protection afforded investors by federal securities law. Listing of the above items is not intended to be all inclusive. Students are invited to consult with the instructor regarding specific information.

6320. Income Taxation. 3. Focuses on the federal taxation of individuals. It includes taxation of compensation, installment sales as well as taxation of gains on property transfers.

6330. Trusts and Estates. 3. A survey course that also serves as an introduction to Estate Planning. Covers the law of wills, trusts, and intestate succession. It also includes execution and revocation of wills; creation, modification, and termination of trusts; problems of construction; restrictions on testate transfers, transfers in trust and future interests. Covers some aspects of fiduciary administration, but not taxation. A prerequisite for Estate Planning.

6340. Civil Procedure II. 2. A study of modern practice in civil cases under Rules of Civil Procedure and other sources of procedural law. Civil Procedure I and its continuation, Civil Procedure II, cover all aspects of jurisdiction and other issues bearing on what court(s) may hear a case; choice of state or federal law; pleading; joinder of claims and parties; class actions; discovery and other pre-trial procedures; summary judgment; non-jury and jury trials; appeals; and claim and issue preclusion.

6350. Constitutional Law II. 2. Focus on constitutionally protected individual rights and liberties. Specifically, the following topics will be covered: substantive due process, including the right of privacy; procedural due process; freedom of expression; and religious freedom.

6410. Evidence. 3. A study of the means by which any alleged fact is established or disproved, including competency of witnesses; direct examination; cross-examination and impeachment; privileges; basic and special issues of relevancy; the hearsay rule and its exceptions; real, demonstrative, and documentary evidence; opinion and scientific evidence; judicial notice; and the responsibility of proof.

6420. Professional Responsibility. 3. A study of the duties of attorneys to their clients and the public under the Model Rules of Professional Conduct and case law.

6490. Taxation of Partnerships and other Pass-Through Entities. 3. A study of the income taxation of the formation, operation, and termination of partnerships, with particular emphasis on the regulation of the allocation of income, losses, and liabilities among partners. Also, the taxation of the shareholders of S Corporations.

6500. Agricultural Law. 2. Presents the opportunity to look at a number of different types of law applied in the specific context of agriculture. Includes a section discussing various property/contract issues such as agricultural land leases and farm tenancies. Also includes discussions on employment and soil and water management and involves an examination of interesting labor, conservation and pollution questions raised by agricultural operations.

6510. Administrative Law. 3. A review of administrative law practice and procedure, primarily at the federal level. The course begins with materials on the nature and function of administrative agencies. Agency rulemaking power, emphasizing federal and state Administrative Procedure Act (APA) requirements. Considers the adjudicative powers of administrative agencies, including an agency's obligation to afford persons due process of law. Finally, the course examines judicial review of administrative agency decisions.

6520. Advanced Appellate Advocacy. 1. Builds on the first semester Legal Writing course by introducing students to: (1) more sophisticated aspects of legal reasoning and analysis; (2) more sophisticated aspects of legal research; (3) the basics of persuasive legal writing; (4) the basics of appellate procedure; (5) the basic parts of an appellate brief; and (6) the basics of oral advocacy.

6530. American Legal History. 3. A study of the life of John Marshall, Chief Justice of the United States from 1801 until 1835.

6540. Antitrust. 3. The study of the federal laws regulating monopolies and restraints of trade. The substantive provisions of the antitrust laws are relatively brief - there are only three main statutes - the Sherman Act (1890), the Clayton Act (1914) and the FTC Act (1914). These statutes entail broad prohibitions, and there are no detailed regulations like the tax code.

6550. Bankruptcy. 2. A survey of the Federal Bankruptcy Act. Includes consideration of liquidation, reorganization, family farmers, debts of individuals, and the relationship of bankruptcy law and proceedings to Article 9 of the Uniform Commercial Code and the law of mortgages.

6560. Business Planning. 3. Focus is primarily on a problem involving several persons who are organizing a business entity. Consideration will be given to the characteristics of several kinds of business organizations and to making a judgment as to which organization should be used to house the business being set up. Considers tax and non-tax aspects with respect to business organizations.

6565. Civil Pretrial Practice. 3. Includes the civil litigation process from the filing of a complaint and decisions related to the complaint, to discovery including written discovery and depositions, to pre-trial motions such as motions to change venue, to exclude evidence, and for summary judgment, to preparation for pre-trial conferences and trial. Sample cases provide the basis for the drafting of various discovery documents and motions. There will be no exam.

6570. Payment Systems. 3. Focus on the use of negotiable instruments (such as checks, drafts, promissory notes, and certificates of deposit) to document debts and to make payments. Provides an overview of the banking system, the check collection process, and the use of various commercial instruments. Topics include liability for stolen checks, forged signatures, alterations, payment to impostors, insufficient funds, stop payment orders, post-dated checks, and restrictive endorsements. In addition, the rights of good faith purchasers are examined and the use of third parties (such as guarantors, sureties, and accommodation parties) to secure obligations are discussed.

6580. Communications Law. 3. Covers the law applying to the electronic media, including broadcast licensing, the fairness doctrine in broadcasting, cable television regulation, regulation of new communications technologies such as the Internet, and the regulation of telecommunications. The latter topic will include the breakup of AT&T, as well as the 1996 Telecom act.

6590. Conflict of Laws. 3. The study of the law applicable to transactions or occurrences involving contacts with more than one state, including questions of choice of law, jurisdiction, and recognition of foreign judgments. The casebook is: David P. Currie, Herma Hill Kay & Larry Kramer, *Conflict of Laws: Cases -- Comments -- Questions*, Sixth Edition (West 2001).

6600. Consumer Protection. 3. Covers three main topics: (1) the law of advertising and marketing; (2) consumer credit regulation; and (3) consumer warranty law.

6615. Taxation of Business Entities. 3. Surveys the federal income tax consequences of major events in the existence of business entities and their owners including formations, contributions, operations, distributions, redemptions, and liquidations. Compares taxation of Subchapter C corporations, Subchapter S corporations, and partnerships. Students spend significant time on statutory interpretation and along the way consider policy issues that affect how the taxation of businesses is structured and enforced under the Internal Revenue Code.

6620. Bankruptcy Law. 3. After briefly surveying state collection laws, considers the impact of federal bankruptcy law on secured and unsecured creditors. The primary focus of the course is on consumer bankruptcy under Chapter 7 (liquidations) and Chapter 13 (reorganizations). Concludes with an introduction to Chapter 11 (business reorganizations).

6630. Criminal Procedure. 3. Examines the constitutional rights of criminal suspects and defendants under the 4th, 5th and 6th Amendments of the United States Constitution. Much of the focus is on law enforcement practices and the constitutional principles that constrain the police.

6635. Domestic Violence Law. 3. Helps prepare students to take part in the Legal Services Program, which has been expanded to include a Domestic Violence Legal Assistance Project.

6640. Family Law. 3. From marriage to divorce, property distribution, child custody and the termination of parental rights, explores the many areas and facets of family law with an eye toward providing students with a firm doctrinal grounding, while preparing them for what they will face as they enter into practice. In the context of this exploration we look closely at many of the cultural issues noted above, and the effects those issues are having not just on the family and the law related to the family, but on society as a whole.

6645. Children and the Law. 3. Covers a range of children's issues, including: dependency; termination of parental rights; adoption, child custody and support; parental rights; and the juvenile justice system. It is suitable for students considering a career in child advocacy, or who have any interest in the subject of juvenile law. Prerequisite: completion of first year of law school.

6650. English and Scottish Legal History. 2. The goal is to give students a better understanding of how our law came to be as it is, through study of a revolutionary age. Scots law is included with English law to provide perspective on how a kindred legal system developed. Students will assist in planning the particulars of the course, and will make presentations on the assigned subjects for study. One or more papers will be required. Students may satisfy the College of Law advanced writing requirement in the submission of the papers.

6660. Environmental Law. 3. Provides an overview of the broad field of environmental law, with an emphasis on the major federal environmental statutes such as the National Environmental Policy Act, the Endangered Species Act, the Clean Air and Clean Water Acts, and statutes regulating both hazardous wastes and toxic chemicals in commerce. In considering these various statutes, we consider both their substantive requirements and their conceptual approaches to environmental protection. Touches briefly on issues such as the role of states in implementing these national laws, various approaches to enforcement of

these laws, common-law doctrines relevant to environmental protection, and economic aspects of environmental law.

6670. Estate Planning. 2. Applies estate and gift tax principles in a survey of estate planning principles and techniques. Traditional estate planning tools including wills, trusts, and durable powers of attorney are discussed as well as post-mortem planning, administration issues, and planning for special situations, such as owners of closely held businesses, entrepreneurs, and the disabled.

6675. Gift and Estate Taxation. 2. Focuses on the federal estate and gift tax consequences of wealth transfers. Students learn to analyze the federal estate and gift tax section of the Internal Revenue Code. *Prerequisites:* income taxations, trusts and estates.

6680. Federal Courts. 3. Examines the themes of separation of powers and federalism by scrutinizing the jurisdiction of the federal courts. Covers justiciability doctrines (standing, ripeness, and mootness), congressional power to control federal court jurisdiction, constitutional and statutory parameters of federal question jurisdiction, federal common law, basic contours of litigation under 42 U.S.C. 1983, state sovereign immunity and the Eleventh Amendment, and the various abstention doctrines.

6700. Indian Law. 3. Surveys the law that applies to Native Americans and tribal governments. Deals primarily with federal law because of the unique relationship between the federal government and tribes, which are sovereign entities, and because federal law controls most Native American activities. The main issues are jurisdictional; that is, they concern the allocation of legislative (or regulatory) and judicial (both civil and criminal) jurisdiction among federal, tribal, and state governments.

6710. Insurance Law. 2. Discussion of all types of insurance from the point of view of an attorney advising clients and of a consumer. It is relevant and important for those going into any aspect of the law as insurance is involved in most law from business to litigation to domestic to estate planning. Covers standard insurance policy language, as well as case law and practical ideas for dealing with insurance.

6715. Immigration Law. 3. Practical approach to topics such as the standards for admission of immigrants; nonimmigrant visas for students, workers and tourists; regulation and exclusion of undocumented aliens; legal procedures for admission, exclusion and deportation; refugee law; and citizenship law. Additionally, legislative history and policy

behind applicable legislation and case law is discussed. *Prerequisites:* completion of the first year of law school.

6720. International Law. 3. Covers international law in its classic sense--public international law, or "the law of nations" as it's referred to in the Constitution. Looks at topics such as the sources and evidence of international law, sovereignty, the relationship of international law to national law, the bases of national jurisdiction, the international use of force, human rights, etc. However, modern public international law also includes areas of more immediate interest to practicing lawyers, such as conflicts between nations over which one has the right to assert jurisdiction over certain activities, international extradition, and immunities from jurisdiction.

6725. Intellectual Property. 3. Introductory overview of principles of intellectual property protection particularly trademark, copyright and patent law. USA law will be integrated into a comparative analysis of International intellectual property law.

6730. Jurisprudence. 3. Examines American legal thought from the nation's inception through today. Discusses issues related to the nature of law, the nature of judicial decision making, the relationship between law and society, and the like.

6735. Native American Natural Resources Law. 3. Examines federal and tribal law, (chiefly statutes, regulations, cases and treaties), governing environmental regulation and management of tribal land water minerals, fish and wildlife, and cultural resources. Explores the federal trust doctrine, aboriginal title, reserved rights, allotment, and the tribes-as-states-doctrine.

6740. Labor Law. 3. Deals with labor law in the private sector. Surveys the establishment of a collective bargaining relationship between employers and unions, the subsequent negotiation of a collective bargaining agreement resulting from that relationship, the administration of that agreement through its grievance-arbitration provisions, and the economic weapons used by parties to various kinds of labor conflicts.

6745. Employment Law. 3. Examines a variety of laws, regulations and legal theories governing the workplace and the employment relationship. In particular we look at the at-will doctrine and its exceptions, rules affecting the establishment of the employment relationship and rules affecting the termination of the employment relationship.

6750. Law and Economics. 2. The use of microeconomic theory to assess the economic efficiency and equity consequences of alternate legal structures.

6755. Legislation. 3. Examines how statutes are made and applied. Priorities are 1) legislative process in Congress and the state legislatures (especially Wyoming), and; 2) statutory interpretation tools and techniques.

6760. Local Government Law. 3. Examines the organization, powers, responsibilities, liabilities and financing of units of local government, including counties, cities, school districts and other special districts. Interrelationships among local governments, the states and the federal government are studied. Leading judicial decisions as well as state and federal constitutional and statutory provisions will be assigned. Particular emphasis is placed on the law of Wyoming and other western states.

6765. International Business Transactions. 3. Overview of international business transactions involving private entities engaged in global commerce. Examines legal framework associated with planning, implementation, and enforcement of international agreements concerning sale of goods, trade of services, and transfer of technology. Impact of relevant international organizations and emerging substantive international commercial law with social obligations of multinational enterprises. *Prerequisite:* completion of first year of law school.

6775. International Human Rights. 3. An examination of norms, institutions and problems relating to international human rights law. Addresses civil and political rights questions (including the expanded use of international criminal law as a means of enforcing universal values), social and economic rights (including access to medicines) and select group rights issues. *Prerequisites:* completion of the first year law school curriculum.

6780. Mining Law. 2. An in-depth review of the law governing mineral development in the western United States. The first part of the course focuses on hardrock minerals governed by the General Mining Law of 1872 and related regulations. The second part will cover the regulation of energy minerals such as oil and gas under the Mineral Leasing Act of 1920 and related laws and regulations, as well as the development and regulation of coal mining under the Surface Mining Control and Reclamation Act (SMCRA). The third part will analyze the unique aspects of federal and state environmental laws as they relate to mineral development operations, including constitutional issues such as federal and state preemption and takings.

6790. Oil and Gas. 3. A study of the law regarding private property interests in oil and gas. Subjects include the acquisition, transfer, lease, and assignment of oil and gas interests; rules and contracts governing the relationships among surface owners, oil and gas lessors, oil and gas lessees, and neighboring owners; and government regulation.

6800. Public Lands. 3. Examines the law governing management of the federal public lands/national parks, national forests, wildlife refuges, BLM lands, etc. Among other laws, we study NEPA, General Mining Law of 1872, Mineral Leasing Act of 1920, National Forest Management Act of 1976, Taylor Grazing Act, Federal Land Policy and Management Act, Endangered Species Act, and Wilderness Act. In addition to examining Congress' prescriptions for public land management and the constraints it has imposed on land managers, the course also explores how the public and politics influence public land policy and decision making.

6810. Real Estate Finance. 3. Begins with some study of the law and practice relating to real estate transactions, deeds, and titles. The rest of the semester covers the law and practice relating to mortgages, foreclosure, and other financing issues in residential and commercial real estate transactions.

6830. Secured Transactions. 3. Financial institutions and other businesses often take an interest in a debtor's personal property (such as goods, equipment, inventory and accounts) to secure payment of a debt or performance of an obligation. Deals with the law governing security interests in personal property which is embodied primarily in Article 9 of the Uniform Commercial Code.

6835. Law of Electronic Commerce. 3. Covers the novel legal issues arising in relation to the Internet, electronic commerce, and online services. The issues include evolving rules and practices related to personal jurisdiction, electronic contracting, intellectual property, privacy, communications, governmental regulation, payments, taxation, and fraud prevention. *Prerequisites:* completion of first year of law school.

6840. Securities Regulation. 3. Considers the responsibilities and liabilities of a company and various persons involved in the public offering of securities, including the filing of a registration statement, and other disclosure matters. Deals with the definition of the term "security" and possible exemptions for securities offerings. Covers securities fraud under SEC Rule 10b-5 including, inter alia, insider trading. Corporate disclosure requirements in connection with matters such as proxy rules

and in other contexts are also considered. Some attention is given to disclosure requirements in connection with mergers and acquisitions, takeovers, and tender offers.

6850. Trial Practice. 3. Trial Practice is a rigorous learn-by-doing course designed to build courtroom skills. Through a combination of exercises, lectures, demonstrations, drills and complete trials, students are prepared to advocate before judges and juries. The first half of the course focuses on basic examination and exhibit skills, including direct, cross, redirect, making and responding to objections, and the introduction and use of real and demonstrative evidence. In the sixth week, students conduct bench trials. The second half of the course builds on the basic skills and covers advanced ones, including examination of expert witnesses, opening statement, closing argument and voir dire. Jury trials are conducted in the final two weeks.

6860. Water Rights. 3. A study of the allocation and reallocation of water resources with particular emphasis on prior appropriation systems in the Western United States. Riparian systems and groundwater management are also addressed, along with interstate conflicts, federal water rights, federal-state relations, and the effect of environmental laws on water allocation and the exercise of water rights.

6865. Natural Resources Law. 3. Comprehensive view of the general law governing natural and environmental resources. Students will learn to understand how our legal system has organized the various problems of allocation, use rights, duties and limitations, and governance, in the context of establishing rules governing human use of the earth's natural endowment. *Prerequisite:* completion of first year of law school.

6870. Water Pollution. 3. An overview of the practice and procedure of the subfield of environmental law dealing with water pollution control. Focuses on federal law, specifically the Federal Water Pollution Control Act, or Clean Water Act, regulations promulgated by the U.S. Environmental Protection Agency and Army Corps of Engineers, and case law construing the statute and rules. Considers statutory structure, legislative intent, administrative discretion, and mechanisms for state-federal coordination.

6875. Hazardous Waste and Water Pollution Law. 3. Examines the Clean Water Act, Resource Conservation and Recovery Act, and the Comprehensive Environmental Response, Compensation, and Liability Act. These highly complex federal statutes, applicable nationwide either directly or via state-implemented programs, regulate pollution of water; govern

industrial generation, handling, and cleanup of hazardous substances; and establish liability and enforcement standards.

6880. Criminal Adjudication. 3. A study of the post-investigative phase of the criminal process: from charging decisions through sentencing and appeals. Topics covered include: the decision to prosecute; bail and pretrial release; grand jury and preliminary hearing practice; jury-related issues, such as pretrial publicity, Batson, and deliberative secrecy; criminal discovery; the role and responsibilities of defense counsel and of the prosecutor; defendants' rights to presence, confrontation, and to present a defense case; verdicts; sentencing and appeals.

6885. Law Office Management. 1. This is a "how-to" course which introduces students to the law office as an operating business. This course covers various aspects of establishing and operating a law office, including: attorney timekeeping and client billing; establishing fees rates and fee agreements; revenue projections, record and file management and conflict management systems. *Prerequisites:* completion of the first year law school curriculum.

6890. Land Use Law. 3. Deals primarily with public methods of making decisions concerning the use and development of land. Land use decisions range from the issuance of building permits or variances to zoning to long-range planning. Examines tensions between private and public interests (private landowners, community residents, developers, business persons, and city/county officials) over the use of private property, the legal principles that inform the possible resolutions of these tensions and define governmental authority, and the implications of land use regulation for the exercise of other rights, such as free speech.

6910. Seminar. 1-2.

6915. Topics in Law. 1-3. Specific subject matter varies each year and between each section because the course is normally taught by a visiting faculty or by a law faculty member or interdisciplinary team who wish to present a special topic not able to be offered on a regular basis. Students should check class schedules for current offerings each semester. *Prerequisite:* completion of first year of law school; consent of instructor required for non-law students.

6920. Legal Skills and Problems. 1-2.

6925. Advanced Persuasive Writing. 3. Art and science of written legal persuasion. Specifically, course explores the nature of legal persuasion from the standpoints of numerous disciplines, including classical rhetoric, psychology, literary theory, and morality theory, and based on these principles, covers specific strategies lawyers can use to make their writ-

ing more persuasive. *Prerequisites:* LAW 6160 and LAW 6260, and completion of first year of law school.

6930. Legal Clinic. 2-3 (Max. 6). Supervised clinical training in law office and court procedures. Clinical programs available are the Defender Aid Program, Legal Services Program, and the Prosecution Assistance Program. *Prerequisite:* Students must have completed first year of law school.

6935. Contract Drafting. 3. Covers fact investigation and the role of the lawyer in a transaction proposed by the client, including possible negotiations with other parties; drafting a contract in Plain English; and the ethical obligations of a transactional lawyer, through simulations and problem-solving exercises. *Prerequisite:* LAW 6110.

6940. Independent Study. 1-2. Research and writing in specialized or advanced areas of the law. Students are to contact a professor that has a background or interest in the students' topic area to determine if the professor will supervise the Independent Study. Students receive one credit hour for 50 hours of work or 2 credit hours for 100 hours of work.

6945. Workers Compensation Law. 3. Addresses essential aspects of workers' compensation laws including extent of coverage, the various levels and varieties of benefits provided, and how claims are established and enforced. The course will also consider the interaction of state workers' compensation laws with other laws.

6950. Law Review. 1-3. Intensive research, writing, and editing of case note or comment and cite-checking of articles for the Wyoming Law Review. Satisfactory/unsatisfactory only. Law Review membership is required. Credit may be received in the third year only. Maximum six hours in academic career.

6960. Legal Externships. 1-3. The externship program provides second and third year students with an opportunity to learn through practice by working directly with attorneys or judges for academic credit. Externship placements are limited to judges, government agencies and nonprofit organizations, and must be pre-approved by the College of Law faculty.

6970. Legal Competitions. 1-3 (Max. 3).

6980. Advanced Business Organizations. 3. Considers the structure and governance of business organizations, owner informational rights, proxy voting and regulation, and shareholders derivative and direct suits. Attention will also be given to business combinations, sales of control, fiduciary duties of controlling persons, tender offers, the issuance of shares and debt obligations, distributions and redemptions. The above should be regarded as a general description of the course but is not intended to be all inclusive. Students are invited to consult with the instructor regarding specific information relative to this course.

6990. Advanced Topics. 3.

Armed Forces Services

LTC Mitchell K. Day, Commander, Army ROTC
 LtCol. Tay W. Johannes, Commander, Air Force ROTC

It has been the consistent policy of the university in cooperation with the federal government to make courses in military science and aerospace studies available on a voluntary basis to all qualified students.

Academic credits for Army and Air Force Reserve Officers' Training Corps (ROTC) are applied toward baccalaureate and graduate degrees in varying amounts depending upon the degree plan of the student and as determined by the college concerned.

Army ROTC

Department of Military Science

207 Wyoming Hall, 766-3390

FAX: (307) 766-3383

Web site: www.uwyo.edu/armyrotc

Professor:

MITCH K. DAY, Lieutenant Colonel, U.S. Army, Military Police; B.S. Western Oregon State College 1992; M.S. 1993; Professor of Military Science 2011.

Lecturers:

TIMOTHY HAMILTON, Sergeant First Class, U.S. Army; Military Science Instructor 2014.

ERICH MARTIN, Master Sergeant, Senior, U.S. Army; Military Instructor 2013.

The Department of Military Science - Army ROTC faculty is composed of U.S. Army officers and senior noncommissioned officers. These officers hold bachelors' and masters' degrees in a variety of fields. Noncommissioned officers hold associate degrees in a variety of fields. Officers' military education includes completion of the Officer Basic Course and the Officer Advanced Course. Several faculty are graduates of the Army's Command and General Staff College and have completed military specialty schools such as: Flight School, Ranger School, Airborne School, Air Assault School, Special Forces School, Jumpmaster Course, Special Operations Training and Language School.

General Information

Army ROTC is a program which offers qualified college students the opportunity to graduate as officers and serve tours in the U.S. Army, the Army National Guard or the U.S. Army Reserve.

The four-year program is divided into two parts called the basic course and the advanced course. The basic course, consisting of 8 credit hours, is usually taken during the first two years of college. No military obligation is incurred by enrolling in the basic course.

The advanced course, usually taken during the junior and senior years or during graduate school, involves 19 credit hours of study and a five-week Leadership Development and Assessment Course during the summer. Advanced course students incur a military obligation, and they receive up to \$500.00 per month in tax-free subsistence throughout the academic year.

Army ROTC is not itself a major. Participants pursue the degree of their choice and take Army ROTC as an elective program. Those who complete the program may receive federal commissions from the President of the United States.

Army ROTC offers a military science minor. Effective with the Fall 2015 semester, the requirements for a minor in military science are as follows:

ARMY	1010	.....	2
ARMY	1020	.....	2
ARMY	2010	.....	2
ARMY	2020	.....	2
ARMY	3010	.....	3
ARMY	3020	.....	3
ARMY	3025	.....	1
ARMY	3030	.....	3
ARMY	4010	.....	2
ARMY	4020	.....	2
ARMY	4015	.....	1
ARMY	4025	.....	1
HIST	2020	.....	3
Total credit hours			27

Or

ARMY	2050	.....	3
ARMY	3060	.....	1
ARMY	3010	.....	3
ARMY	3020	.....	3
ARMY	3025	.....	1
ARMY	3030	.....	3
ARMY	4010	.....	2
ARMY	4020	.....	2
ARMY	4015	.....	1
ARMY	4025	.....	1
HIST	2020	.....	3
ARMY	4016	.....	1
ARMY	4026	.....	1
ARMY	4050	.....	2
Total credit hours			27

The military science minor, encompassing 27 credit hours, will prepare selected students for commissioning and establish a sound basis for their future professional development.

To be eligible for a commission, U. S. citizens must meet prescribed physical, intellectual, and moral standards in addition to completing Army ROTC studies and successful completion of Professional Military Education (PME) courses. These PME courses include written communication skills, military history and computer literacy. A two-year option is available for sophomore and junior students, students with prior military service (see below), and those completing a masters program.

In the Army ROTC classroom the student is exposed to a wide variety of subjects designed to instill confidence, self-discipline, integrity and responsibility. Students gain an appreciation for the role of national defense, and learn what a leader must be, know and do in order to gain the respect and support of their subordinates.

Skills learned in Army ROTC, including resource management, leadership and planning are valuable and complement any university major. Young commissioned officers returning to civilian sectors after military service find an abundance of career opportunities.

Uniforms, Pay and Allowances

All uniforms, books and other instructional materials required in Army ROTC are provided to basic and advance course students at no cost. The cadet uniform is the same as the U.S. Army uniform except for the distinctive ROTC insignia.

Advanced course participants are paid a tax-free subsistence allowance of up to \$500.00 per month during the school year. During the summer training period students receive pay, travel, rations, quarters, clothing, and medical and dental services.

Two Year ROTC Program

The two-year program is designed for community college graduates and university students of sophomore or junior standing who did not take Army ROTC during the first two years of school. The program may also apply to seniors and graduates who have at least two years remaining in post graduate study.

To enter the two-year program, students must first attend a paid 28-day internship during the summer or be a veteran who has graduated from advanced individual training.

Special Scholarship Program

Two-, three-, and four-year scholarships are offered by Army ROTC. These scholarships pay full tuition, laboratory fees and a \$1200 per year book fee. While on scholarship, the student receives up to \$500.00 a month during the school year. In addition to active duty scholarships, Army ROTC offers scholarships to students wishing to join the U.S. Army Reserve or Army National Guard upon commissioning. These reserve scholarships also pay full tuition, laboratory fees, book fees, and up to \$500.00 a month. Graduate students and undergraduate students are eligible to apply for the two- and three-year scholarships. These scholarships are awarded by the Professor of Military Science. Students do not have to be enrolled in ROTC to apply for these scholarships. Certain restrictions apply. High school juniors and seniors seeking a four-year scholarship should contact the Professor of Military Science, Army ROTC, Dept. 3167, 1000 E. University Ave., Laramie, WY 82071. College students desiring a scholarship should contact the Professor of Military Science in 154 Wyoming Hall, (307) 766-3390.

Scholarships are offered to ROTC cadets from several military associations. The Reserve Officers Association (ROA), Association of the U.S. Army (AUSA), Cowboy Battalion Alumni Association (CBAA), the United Services Automobile Association (USAA) and First Command offer annual cash awards to ROTC cadets.

Room and board scholarships are available to students who enroll in Army ROTC. Scholarship awards are based on merit and the student's potential to become a commissioned officer. The number of scholarships and dollar amount vary dependent on funds available. Room and board scholarships may only be used in UW residence halls or university apartments.

Leadership Laboratory

Leadership laboratory provides instruction that complements the classroom. This time provides practical application on subject matter taught in class. Leadership and management dynamics are inherent in this practical application. All students enrolled in a military science course must enroll in the appropriate leadership laboratory unless consent is obtained from the Professor of Military Science. Training

includes land navigation, first aid, communications, basic rifle marksmanship, drill and ceremonies, decision making, squad movement and problem solving. This instruction is cadet planned and presented with immediate instructor feedback. The goals of this period are to instill self-confidence, self-discipline and responsibility in each cadet.

Land navigation skills are practiced in a variety of terrain locations near campus. The training instills trust and confidence in the cadet's ability to accurately plot and follow a compass course. Communication, such as radio, telephone and interpersonal skills, are taught and practiced. Marksmanship is taught in the Half-Acre rifle range and on other ranges, weather permitting. Finally, drill and ceremonies teaches methods of organizing and moving groups of individuals in an orderly manner resulting in team building while establishing esprit de corps.

Veterans' Option

Veterans of active military service and members of the National Guard or U.S. Army Reserve may qualify to go directly into the advanced Army ROTC program if they will be an academic junior. In these cases, basic training fulfills the requirement of the first two years of ROTC (Basic Course). Academic freshmen and sophomores are not required to take basic course classes but are highly encouraged to do so. It is common for members of the National Guard to study to become commissioned officers via the ROTC program. The Simultaneous Membership Program (SMP) is a formalized program for advanced course Guard members and Reservists to combine their unit training with ROTC training. In many cases the SMP program will result in increased financial benefit to the individual.

Military Obligation

There is no military obligation for taking the basic course, freshman and sophomore years. When an individual starts the advanced course, he or she incurs an obligation. The nature of that obligation depends upon whether the individual elects to serve in the National Guard, the Army Reserve or the active Army, and whether the individual has an Army scholarship. Those who desire guard or reserve duty may contract specifically for that purpose. The guard and reserve obligation is eight years of monthly training meetings and two years of inactive ready reserve (IRR). The active duty obligation is four years Active duty, and four years of inactive ready reserve (IRR).

Extracurricular Activities

Army ROTC offers a variety of activities which are designed to promote an interest in the military and provide relaxing, enjoyable leisure activities for cadets.

The Cowboy Battalion has its own Ranger Challenge team, which is a varsity-level team that competes with other universities in military skills such as orienteering and soldier skills. The battalion also has a cannon crew, mounted color guard, 10-miler team, Bataan Death March team, and participates in intramural sports.

The department periodically sponsors other activities such as rappelling demonstrations, ranger weekends, battlefield tours, leadership exercises and other adventure training, such as mountaineering, land navigation exercises, patrolling and wilderness survival.

Suggested Course Sequence

FRESHMAN YEAR: Fall		Hrs.
ARMY	1010	2
Lab (mandatory).....		0
PEAC	1272 (voluntary)	1/2
PEAC	1001	1
ARMY	3060 (voluntary).....	1

FRESHMAN YEAR: Spring		Hrs.
ARMY	1020.....	2
Lab (mandatory).....		0
PEAC	1272 (voluntary)	1/2

SOPHOMORE YEAR: Fall		Hrs.
ARMY	2010.....	2
Lab (mandatory).....		0
PEAC	1272 (voluntary)	1/2
ARMY	2060 (voluntary).....	2
ARMY	3070 (voluntary).....	2

SOPHOMORE YEAR: Spring		Hrs.
ARMY	2020.....	2
Lab (mandatory).....		0
PEAC	1272 (voluntary)	1/2
HIST	2020 (mandatory).....	3

JUNIOR YEAR: Fall		Hrs.
ARMY	3010.....	3
Lab (mandatory).....		0
PEAC	1272 (mandatory)	1/2
ARMY	3025 (mandatory).....	1
ARMY	3070 (voluntary).....	2

JUNIOR YEAR: Spring		Hrs.
ARMY	3020.....	3
Lab (mandatory).....		0
PEAC	1272 (mandatory)	1/2
ARMY	3026 (mandatory).....	1

SENIOR YEAR: Fall		Hrs.
ARMY 4010	.....	2
Lab (mandatory)	.....	0
PEAC 1272 (mandatory)	.....	1/2
ARMY 3030 (voluntary)	.....	3
ARMY 4025 (mandatory)	.....	1
ARMY 4015 (mandatory)	.....	1
ARMY 4050 (voluntary)	.....	2
ARMY 3070 (voluntary)	.....	2
SENIOR YEAR: Spring		Hrs.
ARMY 4020	.....	2
Lab (mandatory)	.....	0
PEAC 1272 (mandatory)	.....	1/2
ARMY 4026 (mandatory)	.....	1
ARMY 4016 (mandatory)	.....	1

Military Science (ARMY)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB♦Q]).

1010. Introduction to Military Science. 2. Encompasses dynamics of leadership applicable to all careers through instruction in Rifle Marksmanship; Land Navigation; Leadership Laboratory; Field Training Exercises; U.S. Army Customs, Courtesies and Career Opportunities and various leadership dimensions.

1020. Dynamics of Leadership II. 2. Second semester of a one-year series. Continues ARMY 1010.

2010 [2030]. Leadership Skills and Management. 2. Studies principles and theories of leadership and team dynamics. Develops student leadership potential through the study of the values and attributes of effective leaders. Students gain self-confidence through the application of principles and techniques of leadership in a military environment. *Prerequisite:* ARMY 1010, 1020 or consent of instructor.

2020 [2040]. Leadership Skills and Small Unit Management. 2. Studies principles in small-unit management, tactics, operations and leadership. Develops students' self-confidence in their leadership ability through progressive application of knowledge, decision making, communication and control. *Prerequisite:* ARMY 2010 or consent of instructor.

2050. Internship: Leader's Training Course. 3. A four week leadership practicum which orients students to U.S. Army, trains them in basic military skills, develops and evaluates their officer leadership potential, and qualifies them for enrollment in the ROTC Advanced Course Program. Increases confidence, self-discipline and decisiveness through physical and academic challenges. *Prerequisite:* sophomore standing or above.

2060. Competent and Confident Leadership. 2. Interdisciplinary course whose aim is to encourage assessment of our obligations, commitments, and roles in society by inquiring into the nature of leadership and the responsibilities of both leaders and followers. Examines leadership traits that transcend the military aspect of leadership.

3010. Leadership and Tactics I. 3. [O♦(none)] Studies leadership techniques and tactical operations at the small-unit level. Instruction covers the decision-making process, troop leading procedures, land navigation and operation orders. In-depth analysis of team/squad tactical procedures and techniques. Numerous student oral presentations and practical exercises. *Prerequisites:* ARMY 2010, 2020, basic camp or consent of department head.

3020. Leadership and Tactics II. 3. Studies platoon-level tactics and leadership techniques. Instruction covers the solving of complex tactical problems. Illustrates techniques for properly managing personnel, resources and time to accomplish organizational goals. Introduces Army staff functions and prepares students for successful completion of ARMY 3030. *Prerequisite:* ARMY 3010.

3025. Conduct of Training. 1. Introduces the Army's system of conducting training exercises. Covers prerequisite training, pre-execution checks, officer/NCO responsibilities, training presentation techniques, sustainment training and training assessment. *Prerequisite:* consent of instructor.

3026. Assessment of Training. 1. Introduces the Army's system of training assessment. Covers formal and informal after-action reviews (AARs); preparation for, conduct of, and goals of an AAR; and writing of Army after-action reports. *Prerequisite:* consent of instructor.

3030. Practicum in Leadership. 3. Encompasses Leadership Development and Assessment Course, a five week test of the cadet's leadership ability. Each cadet is evaluated in ten different positions. Positions include both garrison and tactical situations. Each position requires the cadet to plan, implement and execute a wide variety of tasks. The cadet must control all personnel under this command. The cadet is extensively evaluated by cadre Tactical Officer/Non-commissioned Officer on twelve leadership dimensions. Successful completion of the Leadership Development and Assessment course is required for commissioning. *Prerequisites:* successful completion of ARMY 3010 and 3020.

3050. Army ROTC Nurse Summer Training Program. 3. Allows Army ROTC nursing cadets to obtain college credit for nursing

experience gained in an army hospital during nurse summer training program. Students practice military skills, leadership, clinical nursing, administrative and interpersonal skills. *Prerequisites:* ARMY 3010, 3020.

3060. Military Skills Practicum: Ranger Challenge. 1-4 (Max. 4). Encompasses training and intercollegiate competition in fundamental military skills. Students learn and compete in areas of physical conditioning training, land navigation, rifle marksmanship, rope bridging and other skills practiced during small-unit military operations. *Prerequisite:* consent of department or instructor.

3070. Cadet Professional Development Practicum. 2. Consists of attendance as an Army ROTC cadet at an Army specialty producing school including Airborne, Air Assault, Northern Warfare School or Mountain Warfare School. Offered for S/U grade only. *Prerequisites:* ARMY 1010, 1020, 2010 and 2020 and/or consent of department head.

4010 [4030]. Dynamics of the Military Organization I. 2. Studies and analyzes organization, resources and functions of military staff. Reviews formal staff problem-solving procedures, including student effective writing and briefing presentations. Introduces ethics and the military profession. *Prerequisites:* ARMY 3010, 3020 or consent of department head.

4015. Staff Officer Practicum I. 1. Gives students practical experience in serving on an Army staff. Under supervision of an Army ROTC cadre member, students undergo training and conduct practical exercises in one of the following specialties: command and control, operations, personnel or logistics. *Prerequisite:* concurrent enrollment in ARMY 4010.

4016. Staff Officer Practicum II. 1. Gives students experience in serving on an Army staff. Under the supervision of an Army ROTC Cadre member, students undergo training and conduct practical exercises in one of the following specialties: command and control, operations, personnel or logistics. *Prerequisite:* concurrent enrollment in ARMY 4020.

4020 [4040]. Dynamics of the Military Organization II. 2. Introduces military law; planning and management of personal affairs; Army transportation, logistics and personnel management systems. Studies officer/NCO relations. Includes student writing and briefing presentations on assigned topics. *Prerequisite:* ARMY 4010 or consent of department head.

4025. Principles of Training Management. 1. Introduces students to the Army's system of training management. Covers principles and philosophy of training, training guidance, training cycles, soldiers/leader tasks,

techniques for collective and multi-echelon training, as well as procedures for short-term planning. *Prerequisite:* consent of instructor.

4026. Preparation of Training. 1. Introduces the Army's system of training preparation. Covers short-range training plans, training meetings, development of timelines, publishing of training schedules, training and evaluation outlines, as well as rehearsals. *Prerequisite:* consent of instructor.

4050. Management Internship: Cadet Troop Leadership Training. 2. Conducted at an active Army installation. Students (under supervision) assume duties of and function as a junior commissioned officer for three-week period. Written evaluation of student's performance is returned. Offered for S/U grade only. *Prerequisites:* ARMY 3010, 3020 and consent of department head.

4975. Military Science Independent Study. 1 (Max. 2). A continuation of ARMY 4010 and 4020. Projects and events are set at the discretion of the professor and subject to change. *Prerequisites:* ARMY 4010 and 4020.

Air Force ROTC

Department of Aerospace Studies

110 Wyoming Hall, 766-2338

FAX: (307) 766-2357

Web site: www.uwyo.edu/airrotc

Professors:

TAY W. JOHANNES, Lt. Colonel, U.S. Air Force; B.S. Montana State University 1990; M.S. AF Institute of Technology 1999; Ph.D. The George Washington University 2010; Professor of Aerospace Studies 2014.

Assistant Professors:

RICHARD L. BARNARD, Captain, U.S. Air Force; B.S. Florida State University 2009; Assistant Professor of Aerospace Studies 2013.

JOHN M. MCKEE, Captain, U.S. Air Force; B.S. United States Air Force Academy 2008; Assistant Professor of Aerospace Studies 2014.

Air Force Reserve Officers' Training Corps (AFROTC) provides University of Wyoming students a path toward earning a commission as an officer in the United States Air Force. The curriculum provides college students a solid understanding of the leadership and military fundamentals an Air Force officer requires. AFROTC cadets supplement their normal university coursework with studies in Air Force fundamentals, history, leadership, and national security affairs. In addition, cadets have the opportunity to learn

about various careers in the Air Force through their studies, guest lectures, base visits, and other military training opportunities. While enrolled in AFROTC, the Air Force provides uniforms, AFROTC textbooks, and the necessary Air Force equipment. Upon successful completion of the program and earning their bachelor's degree, cadets are commissioned as 2nd lieutenants in the U.S. Air Force.

Application and enrollment in the program is voluntary. Students should simply register for the appropriate Air Force (AIR) courses. In addition, prospective cadets will need to complete an application package upon arrival at the detachment in order to ensure minimum qualifications for military service. Contact the AFROTC Department for additional details or with any questions regarding registration. All university students, both male and female, are eligible to apply for admission in the program.

Four-Year Program

The four-year program is divided into two phases. The first two years comprise the General Military Course (GMC) consisting of one class period (1 hour) per week in the classroom and one class period (2 hours) per week in leadership laboratory. The GMC is a prerequisite for continuation in the Professional Officer Course (POC), the last two years in the program. Other prerequisites include passing the Air Force Officer Qualifying Test (AFOQT), maintaining at least a minimum grade point average of 2.0 (GMC) and 2.5 (POC), having the physical qualifications for an Air Force commission, and participating in a four-week field training session. The advanced course consists of one class period (3 hours) per week in the classroom and one class period (2 hours) per week in leadership laboratory.

Three-Year Program

Students may enroll in ROTC on a three or three and one-half year program where the GMC component is shorter. To complete the GMC requirements, the student must simultaneously enroll in AIR 1000 and AIR 2000 courses to complete all four academic terms of the GMC program. After successfully completing the GMC program and Field Training, students may enter the two-year POC program. This program is especially suitable for sophomores and junior college transfers. Students that participated in high school Junior ROTC, or have prior-enlisted service, can apply documented participation toward a portion of the GMC requirement.

Leadership Laboratory

The concept of leadership laboratory is to provide leadership training experiences which will improve a cadet's ability to perform as a USAF officer. Leadership laboratory is largely cadet planned and directed.

Field Training

Field training is a four-week program conducted in residence at an Air Force base during the summer.

While at field training, each cadet is provided subsistence, uniforms/equipment, and receives approximately \$28.00/day plus reimbursement for travel to and from the field training base.

Financial Benefits

Freshmen and Sophomores on AFROTC scholarships receive \$250 and \$300, per month, respectively. Juniors enrolled in the Professional Officers Course receive \$400 per month and seniors \$450 per month tax-free during the school year for subsistence. Uniforms, required texts and all necessary Air Force equipment are furnished by the government. In addition, all POC and scholarship cadets are allowed to travel anywhere in the continental United States on military aircraft (on a space available basis).

Special Scholarship Program

Two-, three- and four-year scholarships are offered by AFROTC on a competitive basis. These scholarships pay for a \$900 book allowance per year, tuition (amount dependent on type of scholarship awarded), fees and other required expenses except room and board. The university and the State of Wyoming offer additional room and board funding to Air Force ROTC cadets (who have or have not been awarded an Air Force ROTC scholarship) and reside in university housing. High School seniors seeking a four-year scholarship should contact their high school counselors or the Recruiting Flight Commander, AFROTC Detachment 940, Dept. 3005, 1000 E. University Avenue, Laramie, WY 82071; telephone (307)766-3710; email at airforce.rotc@uwyo.edu, early in the fall of their senior year. Sophomore or transfer students interested in competing for a scholarship should contact the Recruiting Flight Commander before the fall semester prior to junior standing.

Military Obligation

Students enrolling in the first two years of the AFROTC Program (the General Military Course) are not obligated to military service of any kind, unless on an Air Force scholarship their sophomore year. Cadets accepting an AFROTC scholarship and those entering the Professional Officer Course become members of the inactive reserve of the United States Air Force. Upon being commissioned a Second Lieutenant in the Air Force, graduates in non-flying career fields agree to serve four years on active duty; pilot candidates agree to serve on active duty for 10 years after completion of flight training; RPA, navigator, and air battle manager candidates agree to serve on active duty for six years after completion of their respective training.

Extracurricular Activities

To familiarize students with Air Force life and social customs, the AFROTC Program offers on a voluntary basis a wide range of extracurricular activities. Civil Air Patrol gives cadets an opportunity to experience flying first hand with a trained instructor pilot. The Arnold Air Society, a national professional honorary society, is a service organization active on campus. The color guard supports various university and local activities. Visits to Air Force bases across the nation provide insight into the function of Air Force operational units. Throughout the year, AFROTC teams participate in the university intramural sports program, while cadet-sponsored social events build the spirit of comradeship inherent in military life.

Aerospace Studies Minor

Air Force ROTC offers an Aerospace Studies minor. For the Aerospace Studies minor, the student must complete the core AFROTC program plus: 1) 3 credit hours in any Management (MGT) course in the current UW catalog and 3 credit hours in one Political Science (POLS) course listed below, or 2) 6 credit hours of Political Science courses listed below.

POLS 1200, 2200, 2290, 2300, 2310, 3220, 3270, 3300, 4220, 4230, 4255, 4300, 4340, 4360, 4870

The 24 credit hours required to accomplish the Aerospace Studies minor will effectively compliment many majors, provide a sound basis for future professional development, and increase the career opportunities of a UW graduate.

Air Force (AIR)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB◀▶Q]).

1000. Leadership Laboratory. 0. The concept of leadership laboratory is to provide leadership training experiences which will improve a cadet's ability to perform as a USAF officer. Leadership laboratory is largely cadet planned and directed. All cadets must enroll in leadership laboratory. *Prerequisites:* none.

1010. Foundations of the U.S. Air Force I. 1-1/2. First semester of a one-year series. Introduces the U.S. Air Force and Air Force Reserve Officer Training Corps. Topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems and an introduction to communication skills. Leadership laboratory is mandatory for AFROTC cadets.

1020. Foundations of the U.S. Air Force II. 1-1/2. Continues AIR 1010 and features such topics as Air Force core values, leadership, military communication skills, interpersonal communications, team building, diversity and harassment, and the Oath of Office. *Prerequisite:* AIR 1010 or consent of instructor.

2010. The Evolution of Air and Space Power I. 1-1/2. First semester of one-year series. Facilitates transition from AFROTC candidate to AFROTC cadet. Topics include early flight to WWI, interwar years and the development of air doctrine, the European Theater in WWII, the Pacific Theater in WWII, independent Air Force and the Cold War, the Berlin airlift, Korea, and nuclear deterrence. Leadership laboratory is mandatory for AFROTC cadets.

2020. The Evolution of Air and Space Power II. 1-1/2. Second semester of one-year series. Continues AIR 2010 and features topics such as Vietnam, rebuilding for an air and space force, the Persian Gulf War, post-Cold War USAF operations, the former republic of Yugoslavia, and the Global War on terrorism. *Prerequisite:* AIR 2010 or consent of instructor.

3010 [4010]. Air Force Leadership I. 3. First semester of one-year series. Studies leadership and quality management fundamentals, professional knowledge, leadership, ethics and communication skills required of an Air Force officer. Uses case studies to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. Mandatory leadership laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles.

3020 [4020]. Air Force Leadership II. 3. [CS◀▶(none)] Second semester of one-year series. Continues AIR 3010. *Prerequisite:* AIR 3010.

4010 [4050]. National Security Affairs and Preparation for Active Duty I. 3. [G◀▶(none)] First semester of one-year series. Examines the national security process, regional studies, leadership ethics and AF doctrine. Topics include the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, national security policy development, war and warfare, and current issues affecting military professionalism. Continued emphasis is given to communication skills. Leadership laboratory is required for all AFROTC cadets.

4020 [4060]. National Security Affairs and Preparation for Active Duty II. 3. Second semester of one-year series. Continues AIR 4010. *Prerequisite:* AIR 4010.

Bachelor of Applied Science

160 Agriculture Building

Awarded by the College of Agriculture and Natural Resources

Phone: (307)766-4034 Fax: (307)766-4030; Web site: www.uwyo.edu/basa/

Organizations need leaders at all levels who can effectively understand the environment and society in which they operate; analyze situations and solve problems; supervise and manage, interact and communicate appropriately within and outside the organization; anticipate changes; and plan for the future. The Bachelor of Applied Science degree (B.A.S.) is designed for individuals with a minimum of two years' work experience who have completed an Associate of Applied Science, Associate of Science, or an Associate of Arts degree at a Wyoming Community College (or an equivalent degree at another accredited institution) and who need or desire the additional breadth in skills, knowledge and professional expertise to enhance their capabilities in their own careers and in the organizations in which they work.

The fundamental philosophy of the B.A.S. degree is that the student must complete the general education (University Studies Program - USP) requirements expected of all UW bachelor's degrees and must engage in upper-division coursework sufficient to provide focus and depth of learning. Following this philosophy, the B.A.S. has four basic components. These components are university studies, career specialty, professional concentration, and electives. The fundamental elements of the baccalaureate degree are provided by the general education core (USP) and the upper division professional concentration. At the end of the program, students are expected to meet the following Student Learning Outcomes:

- 1) to develop proficiency in accessing, evaluating and utilizing information and ideas;
- 2) to gain an appreciation for civic engagement as a mechanism for individual, organizational and community problem solving;
- 3) to gain an appreciation for civic engagement as a mechanism for individual, organization and community problem solving;
- 4) to demonstrate the ability to acquire, evaluate and utilize information and data;
- 5) to demonstrate an understanding of organizational design, behavior, ethical practices, and effective managerial and supervisory practices;

6) to gain and understanding of social, cultural, economic and environmental contexts essential for effective leadership and the management of change.

The University Studies Program (USP 2015) consists of a minimum of 27 credit hours as adopted by the UW faculty, and the Articulation Agreement between UW and the Wyoming Community Colleges. Students with an Associate of Applied Science degree from a Wyoming community college will normally matriculate with 15-20 hours of credit that count toward this component. The remainder may be required as part of a UW student's coursework, including the Professional Concentration or Electives coursework.

The Career Specialty Component is fulfilled with the Associate of Applied Science, the Associate of Science, or Associate of Arts degrees. This component will consist of a minimum of 40 credit hours in the major.

The Professional Concentration Component is the advanced component of the program and the courses are selected by the student and the advisor. All students are required to take a range of courses from the prescribed set of areas of concentration within this component in order to provide them with the breadth and depth of learning necessary for a baccalaureate degree. This component will consist of 36-40 upper division or articulated equivalent credit hours. Note: Within the Professional Concentration, students have a choice between two Organizational Leadership areas. Option A focuses on Community Leadership; Option B focuses on Business Leadership.

The Elective Component will consist of the number of credit hours needed (after completing the other three components) to complete the degree components. A minimum of 120 hours is required for the B.A.S.

All University of Wyoming Students must earn a total of 48 upper division hours (at least 30 hours taken from UW), to earn their degree. Students in the B.A.S. program must earn a "C" in all courses on the B.A.S. checklist. Failure to do so will require repeating the course. Per university regulations, students may only attempt a course three times; an "F" or "W" count as attempts.

Application Process

All students must apply to the Bachelor of Applied Science program, including those who would like to change their major to the B.A.S. in Organizational Leadership. Students cannot just fill out a change of major form and have Admissions change their status.

These are the steps for application:

1. Apply to the University of Wyoming through Admissions, declaring the Bachelor of Applied Science in Organizational Leadership.
2. Have official transcripts from all institutions attended sent to Admissions.
3. Email Kerry Casper at BAS@uwyo.edu when you have received your acceptance to UW. We can then track your files to evaluate them for the BAS program.
4. Send your resume to BAS@uwyo.edu via email attachment.
5. Students will receive a letter telling the application decision. If a student is denied admission to the BAS, an explanation for the denial will be provided. If accepted, the student will be given information for how to work with the program advisor, Rosalind Grenfell (rgrenfel@uwyo.edu), to enroll in classes.

Application Deadlines

- Students desiring to enter for Fall semester must have a completed application including transcripts received and loaded, acceptance to UW, and resume submitted by July 15th.
- Students desiring to enter for Summer must have all materials submitted by March 15th.
- Students desiring to enter for Spring must have all materials submitted by November 1st.

Organizational Leadership Major

This program is available by distance delivery only. Entry into the program requires an application process. Students must apply for admission to UW first. Official transcripts from all institutions attended must be submitted to UW Admissions. Entry into this program requires an existing associate's degree plus a resume showing at least two years of

work experience. Once a student has applied and their transcripts have been received, Kerry Casper (kcasper2@uwyo.edu) should be notified and resume sent directly to them. Transcripts will not be analyzed prior to application.

All students pursuing a bachelor's of applied science degree in Organizational Leadership are required to complete: a) University Studies Program (USP) requirements and b) courses within the program checklist. While students may move through the program at a pace that works for them, the checklist will illustrate a path for those who wish to complete the degree in two years. Students must complete coursework from Option A or Option B as part of their degree requirements.

The University Studies Program (USP) ensures that each student's program includes the elements essential to a lifetime of personal and professional growth: habits of mind, practices of active citizenship, and development of intellectual skills. The USP program requires students to develop skills that include the ability to express oneself in speech and writing; to locate, evaluate and effectively use information; and to examine problems from quantitative, qualitative, and scientific perspectives. The USP requirements will be approximately 30 credit hours of your overall degree program.

All courses within the Bachelor of Applied Science must be completed with a grade of C or better. If you do not pass the course with a grade of C or better after three attempts you will be dismissed from your organizational leadership major.

The requirements for your program are listed in this check sheet. It is important to understand course sequencing (when courses are offered) and prerequisites (other courses that must be taken first). Each student has an assigned advisor, Rosalind Grenfell (rgrenfel@uwyo.edu). You will be advised each semester. It is important that you work closely with your advisor to plan your course schedule.

University Requirement – All degrees at the University of Wyoming require 48 upper-division credit hours (3000+).

Residency Requirement – All degrees must include a minimum of 30 credit hours from UW.

I. Major Requirements

JUNIOR YEAR: Fall		Hrs.
AGRI 3000	3	
FCSC 3110 or ENR 4500	3	
Upper division elective	3	
*one course from Option A or Option B	3	
Total		12

JUNIOR YEAR: Spring		Hrs.
*one course from Option A or Option B	3	
Contemporary Society course	3	
Upper division elective	3	
COJO 3010 or COJO 3190	3	
Total		12

JUNIOR YEAR: Summer		Hrs.
AGRI 4990	3	
Total		3

SENIOR YEAR: Fall		Hrs.
*one course from Option A or Option B	3	
ENGL 4010	3	
Approved Career Elective.....	3	
Total		9

SENIOR YEAR: Spring		Hrs.
*one course from Option A or Option B	3	
AGRI 4960 or 6 credits of approved career electives	6	
Contemporary Society course	3	
Total Hrs.		48

II. University Studies Program

Core Components		Hrs.
Critical and Creative Thinking (FYS)	3	
Communication I (COM1).....	3	
Quantitative Reasoning (Q)	3	
Science (PN)	6	
Human Culture (H)	6	
U.S. and Wyoming Constitutions (V).....	3	

Embeddable Components		Hrs.
Communication 2 and 3 (COM2 and COM3)	6	
Total Hrs.		30

Earth System Science (ESS) is an interdisciplinary, environmental science, undergraduate major focusing on the interactions between the various components composing the Earth system: the biosphere, geosphere, lithosphere, hydrosphere, atmosphere, and anthrosphere. Students earning a BS degree in ESS are required to declare a concentration in one of the participating programs, which include Anthropology, Biology, Geography, Geology and Geophysics, Secondary Education, and Soil Science.

ESS is designed to be rigorous enough to prepare students for graduate studies in their chosen concentration. The Core courses also provide informal and formal opportunities for students to communicate with those in other concentrations. Students are asked to approach both the ESS office and program faculty in their respective concentration for advising.

ESS Major

The ESS curriculum includes four areas. First, the ESS Core consists of five courses (14 credit hours), including academic credit for a required internship. Second, it requires Foundation courses (35 credit hours) in math, physics, chemistry, geographic information systems, remote sensing, and biogeochemistry. Third, courses are required by the concentration (up to 50 hours). And fourth, many USP requirements are met by Core, Foundation, and concentration courses, but others are required. The Secondary Education degree, "Earth Sciences Education" (ESSE), requires the ESS Core and many of the Foundation and USP courses, in addition to those from Education and most of the ESS concentrations.

The required Core courses start with ESS/GEOL 2000, introducing the physical Earth system. This is followed by ESS/GEOL 3480, which brings human activities into the network. Next, the Earth system is studied in more detail, with modeling used for understanding, predictions, and experiments, in a biogeochemistry. Academic credit for ESS 4970 is earned with the required internship, which is overseen and approved by a faculty committee, and usually occurs between the junior and senior years. And, finally, a senior-level capstone course, ESS 4950, emphasizes formal literature surveys and hands-on research addressing interdisciplinary questions about the Earth system.

The required courses are set for each concentration, and may be obtained from the ESS office.

The Foundation courses are listed below, divided by topic area and with choices for some classes.

LIFE	1000.....	4
MICR	2021 or	4
LIFE	2022 or	4
LIFE	2023.....	4
CHEM	1020 or 1050	4
CHEM	1030 or 1060	4
MATH	2200	4
MATH	2205.....	4
PHYS	1210 or 1310.....	4

Geographic Information Systems or Remote Sensing

(Choose one of the following):

GEOG	4200.....	4
ANTH	4160	3
BOT/GEOL/GEOL	4111	3
BOT/GEOL	3150	3
ATSC	4033.....	3
GEOL	4113	4

Biogeochemistry

(Choose one of the following):

BOT	4780.....	4
CHEM	3020.....	3
GEOL	3500.....	4
GEOL	4777.....	3

Earth System Science (ESS)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB◀▶Q]).

1000. Wyoming in the Earth System. 2. [I,L◀▶(none)] Introduces prospective science majors to the interdisciplinary study of Earth's atmosphere, biosphere, hydrosphere and lithosphere. Focus on regional topics, such as the influence of energy development on water resources. Students learn about the methods Earth system scientists use to generate knowledge, access and use data. In addition to library skills, spatial information including remote sensing and geographic information systems is introduced.

2000. Geochemical Cycles and the Earth System. 4. [SE◀▶(none)] Introduces the Earth system, including the solid Earth, hydrosphere, biosphere and atmosphere. Emphasizes the evolution of the Earth, rock associations and geochemical cycles. Cross listed with GEOL 2000. *Prerequisites:* a 1000-level GEOL course with a lab and concurrent enrollment in CHEM 1020. (Normally offered fall semester)

3480. Environmental Change. 3. [G,WB◀▶(none)] Examines changes in the bio-physical environments and landscapes of Earth during its habitation by humans. Emphasizes integrated approaches to understanding environmental changes based on climatological, ecological, geological, archeological, and historical evidence. Explores how humans have modified Earth's environments and how societies have responded to natural and anthropogenic environmental change. Cross listed with GEOG 3480. *Prerequisites:* GEOG 1010 or any USP S, SB, SE or SP course; any WA course. (P)

4001. Modeling the Earth System. 4. Takes a modeling approach to demonstrate how the Earth is integrated into an interconnected system through exchanges of energy and matter, and how Earth system functioning is susceptible to human alteration. Unifying concepts focus on quantitative interactions between the Earth and the Sun, and between the Earth's lithosphere, hydrosphere, biosphere and atmosphere. Cross listed with ATSC/BOT/GEOL 4001. *Prerequisites:* MATH 2205 or equivalent and [ESS 2000 or GEOL 2000].

4950. Exploring the Earth System. 3. [WC◀▶(none)] Conduct interdisciplinary research on a problem addressing physical, biological, and human components of the Earth System. With several written reports, students will critically review existing literature, define a research question, collect and analyze data, and present their results in a recognized journal format. *Prerequisites:* ESS 2000 and either ESS 3480 or GEOG 3450.

4970. Internship in Earth System Science. 2. Academic credit for internship required of all ESS majors. The work is usually off-campus with government or industry, but may involve research with UW faculty member. Requires a written proposal and written report, both reviewed and approved by the ESS Steering Committee. *Prerequisite:* ESS 4001.

Ingrid Burke, Director

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Web site: www.uwyo.edu/HAUB

The Helga Otto Haub School of Environment and Natural Resources advances the understanding and resolution of complex environmental and natural resource challenges by educating undergraduate and graduate students through innovative, interdisciplinary teaching. Haub School students explore contemporary natural resource issues with an interdisciplinary approach that integrates science, economics, sociology, history, ethics, and more. Students can earn a major, minor, or joint Juris Doctor/Master of Arts in environment and natural resources; or a minor in sustainability, from the Haub School.

The Haub School is also home to the William D. Ruckelshaus Institute of Environment and Natural Resources, which supports stakeholder-driven solutions to environmental challenges by communicating relevant research and promoting collaborative decision making.

Haub School students are encouraged to integrate knowledge across disciplines to become problem solvers and leaders. The school attracts outstanding undergraduate and graduate students, and prepares them to integrate multiple perspectives to address complex environmental and natural resource questions.

Degrees Offered

The Haub School offers several campus-wide concurrent academic programs and one graduate degree in partnership with the College of Law:

Environment and Natural Resources concurrent major (for baccalaureate or master's students earning a degree in any of the university's seven colleges)

Environment and Natural Resources minor (for baccalaureate, master's, and doctoral students)

Sustainability minor (for baccalaureate students)

Master of Arts in Environment and Natural Resources (J.D./M.A. for law students only)

Program Admission

Most prospective students will apply for admission to the University of Wyoming, and then declare a major or minor within the Haub School at any point during their course of study. To declare a major or minor, students must meet with a Haub School academic advisor.

Applicants to the J.D./M.A. in ENR must apply to both the College of Law and the Haub School. Admission to the joint degree program is contingent on acceptance to the College of Law. Current application requirements are available online.

Undergraduate Major in ENR

The ENR major is completed in conjunction with another major in any discipline. Students must complete a total of 35 credit hours of coursework, including: 15 credit hours of ENR core courses (ENR 1200 or 1500, 2000, 3000, 4900, and 4970) and 20 credit hours of ENR disciplines courses, with at least one course from each of seven categories (Cultures & Values; Economics; Environmental Management; Physical & Natural Sciences; Policy; Scientific Uncertainty; and Electives).

The full curriculum, including the approved list of ENR disciplines courses, is available from the Haub School.

Undergraduate Minor in ENR

Like the major, an ENR minor may augment any primary field of study. The ENR core fulfills the requirements for the minor: ENR 1200 or 1500, 2000, 3000, 4900, and 4970.

Undergraduate Sustainability Minor

The sustainability minor is available to any undergraduate student at the University of Wyoming. The minor prioritizes systems thinking, critical thinking, civic engagement, and personal development. Students will develop and practice ethical problem-solving skills rooted in sustainability for everyday challenges.

Curriculum

To fulfill the requirements for the undergraduate minor in sustainability, students must earn 18-19 total credits in specified categories, including:

- 9 credit hours of core courses (ENR 1300, an ethics course, and ENR 4600).
- 9-10 credit hours of elective courses, chosen from one of three tracks: General Sustainability, Food Systems, or Sustainable Energy.

Graduate Major in ENR

The ENR major is completed in tandem with any UW degree. Students must complete 15 hours in ENR courses including 6 hours of graduate core courses (ENR 5000 and ENR 5900), and 9 hours in ENR elective courses. Students will build an individualized program of study with input from a Haub School advisor and graduate advisor from the home discipline. An addendum to the Program of Study listing approved courses must be signed by the Haub School associate director and filed prior to the student's last semester of study.

Graduate Minor in ENR

The graduate minor is designed for doctoral students, but is available to master's students as well. In addition to the degree requirements of the student's home department, students must complete 12 credit hours to earn the ENR minor. Six of these hours are achieved in the graduate core (ENR 5000 and 5900). An additional 6 hours are chosen from a list of approved electives in consultation with the student's Haub School academic advisor and graduate advisor. Students must submit a signed addendum to the Program of Study (see above).

Juris Doctor/Masters of Art in ENR

Students working toward the J.D./M.A. in ENR consult a Haub School advisor to design a program of study tailored to meet their educational goals. Students must earn a minimum of 30 credits for the master's degree, in five areas, including:

1. Core coursework – Second- or third-year students take ENR 5000 and 5900 for 6 credits of foundational coursework. The sequence is designed to introduce students to alternative approaches to problem solving and environmental assessment practices.
2. Elective coursework – Second-, third-, or fourth-year students must take a minimum of 9 credits outside the College of Law. Courses familiarize students with non-law ENR perspectives and approaches in environmental science, social science, and the humanities. Students work with a Haub School advisor to select courses from an approved list.

3. Environmental and natural resources law specialization – Students will take 12 credits within the law school to gain depth in ENR law. Students select from an approved menu of courses. Special approval may be granted for special topics courses.
4. Professional experience – Typically during the summer after the student’s first or second year of law school, they will secure an internship in an environmental and/or natural resources professional setting. Internships may be unpaid or paid, and are subject to approval by a Haub School advisor. Students will earn 1 credit for satisfactorily completing the internship.
5. Research – Students must also complete a cumulative work of scholarship known as the Plan B project. The Plan B offers more flexibility than a traditional thesis in content and format. Students will be required to choose a UW faculty advisor and at least two additional committee members. Committee composition is subject to approval by the director of academics. A public oral defense of the project is required. All members of the student’s committee must be present at the defense.

Learning Outcomes for ENR Students

The primary goal of ENR studies is to add broad understanding of complex ENR issues to the depth of knowledge the student gains in a single discipline (the student’s primary major). The curriculum is designed to prepare students to demonstrate learning in six key areas:

1. Specialization & Integration – Students will complement their disciplinary depth with broad exposure to ENR-related disciplines and approaches.
2. Spatial & Temporal Perspectives - Understand the temporal and spatial characteristics of ENR challenges.
3. Policy - Recognize the content and implications of past and current ENR policies.
4. Cultures & Values - Appreciate the diversity of ENR perspectives and experiences, including the role of personal and collective value systems and structural inequalities in shaping those systems.
5. Complexity, Risk, & Uncertainty - Understand that ENR problems inherently involve complexity, risk, and uncertainty.

6. Professional & Academic Skills - Acquire specific skills necessary to succeed in a range of ENR professions and/or graduate and professional school, especially proficiency in written and oral communication, applied problem solving, and collaboration.

Environment and Natural Resources (ENR)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB♦Q]).

1000. Energy and Society. 3. [O♦(none)] Introduces humans’ past, present, and future sources of energy and their advantages and limitations. Discusses society’s current, non-sustainable pattern of energy use from a supply and environmental perspective. Investigates the technical, environmental, political, and societal problems associated with the eventual conversion to renewable energy resources. Cross listed with ERS 1000.

1100. Environment and Natural Resource Problems and Policies. 2. [I,L♦(none)] Survey of environmental and natural resources issues and policies at local/regional, national, and global scales. Students are challenged to think critically as they dissect the causes, complexities, and solutions of contemporary, interdisciplinary environmental and natural resource challenges.

1101. First-Year Seminar. 3. [(none)♦FYS]

1200. Environment. 4. [SB♦PN]. Introductory environmental science course appropriate for science and nonscience majors. Uses cases studies and applied laboratories to explore core biological principles such as nutrient flow and cycling, population and community ecology, and ecosystem structure and function, as well as the non-science dimensions of ENR issues. Early-semester, weekend field trips/labs required.

1300. Foundations of Sustainability. 3. Examine the basic concepts, theories, and practice of sustainability as a foundation for future learning in the field. Explore principles of sustainability in our community and personal lives through various lenses and systems.

1400. Biodiversity: Science and Society. 3. [I, L♦(none)] Biodiversity lays the foundation for nature’s ability to properly function. In turn humans depend on a healthy-functioning natural system. Adequate biodiversity provides us with many things including new genetic material for agriculture, medical discoveries, recreational opportunities and good mental health. This course will examine key themes

in our understanding of biodiversity. Students enrolled in this course will have a better understanding of issues, challenges and potential solutions to our current biodiversity crisis. Course meetings will largely consist of group discussions of assigned readings. Discussions will focus on critically evaluating and analyzing information, hypotheses and knowledge that arise from the readings. Writing assignments will emphasize succinct but thorough interpretation of information, policy, conservation and societal impacts of biodiversity.

1500. Water, Dirt, and Earth’s Environment. 4. [SE♦PN]. Introductory environmental geology course focusing on water and soil both as hazards and as life-sustaining resources. Explores surface processes and climate change over geological and human timescales. Case studies illustrate the environmental tradeoffs of resource use. Cross listed with GEOL 1500.

2000. Environment and Society. 3. [G♦COM2] Develops understanding of the nature and dimensions of environmental and natural resource issues. Explores ways in which elements of society approach, evaluate, and develop positions relative to environmental issues. Uses case studies to illustrate the contemporary and historical role of individuals and societies in identifying and addressing environmental issues at scales ranging from local to global.

2100 [BOT 2100]. Forest Management. 3. Principles of forest management. Topics include the laws affecting forest management, methods of harvesting wood from forests, fire and insect management, the effects of disturbances on stream flow and nutrient cycling, and the challenges of developing management plans for forests. Cross listed with RNEW 2100. *Prerequisites:* LIFE 1001 or 1010.

2330. Environmental Ethics. 3. [CH♦(none)] Introduces students to ethical theory in environmental problem cases, and to philosophical issues in environmental philosophy. Ethical theories include natural law, utilitarianism, deontological and rights-based theories, relativism. Topics may include: conservation/preservation, resource management, pollution, overpopulation, factory farming, Leopold’s land ethic, deep ecology, holism, eco-feminism. Cross listed with PHIL 2330.

2345. Natural Resource Ethics. 3. [CH,D♦(none)] Introduces students to ethics in context of natural resource extraction, use, conservation, preservation, and distribution. Ethical frameworks include teleological and deontological theories primarily applied to human needs and wants. Concepts and applications of environmental justice are addressed,

including private property, sustainability, and obligations to future generations. Cross listed with PHIL/RNEW 2345.

2450. Principles of Fish and Wildlife Management. 3. Emphasizes principles of habitat and population biology and management, human dimensions of wildlife management, as well as law and policy. Cross listed with ZOO 2450. *Prerequisites:* LIFE 1010 and 2022. (Offered spring semester)

2800. Introduction to Outdoor Leadership. 2. Designed to increase knowledge and competencies related to leading others in the outdoors. Significant focus is on self-awareness, judgment, and decision-making. The specific skills and theories students learn throughout provide a foundation for other leadership endeavors. *Prerequisite:* consent of instructor.

3000 [4000]. Approaches to ENR Problem Solving. 3. [CS,WB◀H] Provides an introduction to environmental and natural resources problem solving and decision making. Students learn how scholars and practitioners define and structure ENR problems for management and policy decision making. Additionally, students learn approaches, processes and techniques that address problems analytically and in a values-oriented context. *Prerequisite:* ENR 2000.

3050. Cultures of Nature in the United States. 3. Uses artistic, philosophical, historical and literary material to investigate how ideas about and representations of nature have changed over time in the U.S. Culminates in an examination of a wide range of contemporary environmental ideas within this broad historical and cultural context. Cross listed with AMST/WMST 3050. *Prerequisite:* 2000-level course in one of the following departments: AMST, American history, American literature, or a 2000-level course approved for the ENR program.

3100. Principles of Wildland Water Quality. 3. Basic principles of aquatic chemistry and water quality as they relate to watershed management practices including livestock production, agronomic production, mineral and natural gas extraction and other land uses. Cross listed with REWM 3100. *Prerequisite:* CHEM 1000. (Normally offered fall semester)

3130. Environmental Quality. 3. Introduction to environmental quality issues and events. Course emphasizes impacts to soil, water, atmospheric, and vegetative ecosystems due to different nutrients and contaminants, including nitrogen, phosphorus, sulfur, trace elements, and organic chemicals. Current information pertaining to environmental quality is discussed and a field trip to the Union

Pacific Tie Plant. Cross listed with SOIL 3130. *Prerequisite:* complete at least 1 University Studies Science course SB, SP or SE. (Offered fall semester)

3300. Environmental Policy, Conservation and Development in India. 3. This course will focus on India's environmental policies pertaining to conservation and development. Case studies will be used to understand how these policies were developed, put in place, and their intended and actual outcomes. Students are required to select a suitable topic and conduct research and submit a research report. *Prerequisites:* junior standing, WA/COM1 course.

3450 [G&R 3450]. Weather and Climate. 3. Systematically examines elements and controls of weather and climate with application to regions. Cross listed with GEOG 3450. *Prerequisite:* GEOG 1000, 1010 or 1020. (Normally offered fall semester)

3620. Environmental Justice. 3. Examines core philosophical understandings of justice and applies them to the environment through a variety of case studies, analytical essays and monographs. Cross listed with POLS 3620. *Prerequisite:* POLS 1000.

3700. Wyoming Conservation Corps Practicum. 1-2. Required for students entering the WCC. Students will be required to make weekly journal entries and write a paper on a topic germane to their WCC experience. Additionally, necessary training for the Wyoming Conservation Corps program will be included in the course content. *Prerequisites:* Acceptance into the Wyoming Conservation Corps program.

3750 [4750]. Natural Resource Planning and Economics. 3. Economic concepts and rudimentary analytical tools are applied to federal, state and local natural resource planning and management programs. The value of economic input into natural resource policy is examined. Evaluating tradeoffs and resolving conflicts play a particularly important role in the course content. Cross listed with AGECE 3750. *Prerequisites:* QA, WA and junior standing. (Offered spring semester of odd-numbered years)

3900. Seminar in Environment and Natural Resources. 1-3 (Max. 3). Examines research and policy perspectives by a variety of authorities on selected environment and natural resource problems and issues. *Prerequisite:* ENR 3000.

3950. Environmental Sociology. 3. Explores how ecology, technology, politics, economics, and culture intersect. By analyzing key contemporary environmental debates, students will develop an understanding of sociological analyses, and the impact of social life on our

environment, as well as the effect of the environment on social life. Topics covered include: the environmental movement; sustainable development; developing nations and their environment; capitalism and technology; and environmental justice. Cross listed with SOC 3950. *Prerequisite:* SOC 1000.

4010. Winter Ecology: Skills of the Winter Naturalist. 1. Emphasizes field naturalist skills, the effects of winter abiotic conditions on organisms and subsequent adaptations to these conditions, animal tracking, introduction to snow dynamics and winter safety. *Prerequisite:* 6 hours of ENR or science courses.

4011. Winter Ecology: Snowpack Science and Dynamics. 1. Emphasizes snow science and avalanche safety through lectures and inquiry-based field laboratories. *Prerequisite:* 6 hours of ENR or science courses.

4012. Winter Ecology: Wildlife and Plant Adaptations. 1. Emphasizes animal and plant adaptations to cope with the stresses of winter, as well as the predicted impacts of climate change, through lectures and inquiry-based field laboratories. Students also conduct field research in a winter environment. *Prerequisite:* 6 hours of ENR or science courses.

4030. Ecology of Knowledge. 3. Examines the development of "disciplines" and explores definitions, theories, methods and practices of interdisciplinary work. Cross listed with AMST 4030. Dual listed with ENR 5030. *Prerequisite:* 3 hours in any interdisciplinary program.

4040 [G&R 4040]. Conservation of Natural Resources. 3. [CS◀(none)] Geographically analyzes conservation of natural and human resources, as well as political, social and ethical ramifications of our environmental policy. Cross listed with BOT/GEOG 4040. *Prerequisite:* 6 hours of geography or ENR.

4051. Environmental Politics. 3. [WC◀(none)] Analyzes environmentalism as a political phenomenon. Provides students with a basic understanding of how to analyze political issues by: (1) examining the historical and contemporary issues that produce controversy over environmental matters; and (2) surveying the impacts of these issues on the formulation and implementation of laws, policies, and regulations. Cross listed with AMST, POLS, GEOG and REWM 4051. *Prerequisite:* POLS 1000.

4052. Federal Land Politics. 3. Examines the political forces that have shaped and continue to shape federal land policy and management. Explores the interactions between democratic decision making and science in the management of federal lands. Surveys the sources of controversy over federal land management and

methods for harmonizing public demands with technical expertise. Cross listed with POLS/AMST/GEOG/REWM 4052. *Prerequisite:* POLS 1000.

4285. Wildland Hydrology. 3. Teaches essential and unique characteristics of hydrologic cycle as occurs on range and forest lands, concentrating on quantification of these processes and storages. Cross listed with REWM 4285. Dual listed with ENR 5285. *Prerequisite:* graduate standing and University Studies QA.

4310. Environmental Anthropology. 3. Addresses how human societies interact with their surroundings, emphasizing cultural understandings of the environment. Introduces variety of theoretical and methodological approaches to topics ranging from problems of the American West to global environmental change. Cross listed with ANTH 4310. Dual listed with ENR 5310. *Prerequisite:* ANTH 1200. (Normally offered every third semester)

4420. Conservation Biology. 3. Addresses the broadest environmental issues facing society (habitat loss, invasion, overexploitation) and the mechanisms driving them, with particular attention to the Intermountain West. Through computer exercises, students also learn how to evaluate conservation efforts and make management recommendations. Cross listed with BOT/ZOO 4420. *Prerequisites:* LIFE 3400 and one of the following: ENR 3500, STAT 2050, or STAT 2070.

4450. Negotiation. 3. Examines how to use negotiation to resolve conflict and get agreement. Describes conflict; outlines ways to address conflict; examines different negotiation strategies and the impact of cognitive bias, power, ethics, and individual and cultural differences; and explores mediation practices. Students complete negotiations, role-plays, and questionnaires. Cross listed with AGECE 4450. Dual listed with ENR 5450. *Prerequisite:* completion of USP O requirement; junior standing.

4500. Risk Analysis 3. [QB◀(none)] Introduces basic concepts of risk analysis, including risk perception, identification, assessment, communication, management, and policy. Provides quantitative treatment of risk assessment procedures, fundamental mathematical models, and the concepts of variability and uncertainty; and practical experience in risk analyses conducted by teams of students. Emphasizes environment and natural resource examples. Dual listed with ENR 5500. *Prerequisites:* MATH1000 or 1400, introductory statistics and familiarity with Excel spreadsheets.

4501. Risk Analysis Computer Laboratory. 1. Laboratory section in which students use computer software to apply Monte Carlo analysis and Decision Analysis to environmental case studies. Laboratory section facilitates application of principles of risk analysis in decision-making presented in lecture in ENR 4500. Dual listed with ENR 5501. *Prerequisite:* Concurrent enrollment in ENR 4500/5500.

4525. Environmental Data Analysis. 4. Explores fundamentals of environmental data analysis including the display and description of data, uncertainty propagation, statistical significance and power, t-tests, ANOVA, time series, serial correlation, multiple regression, and sample collection strategies. Students must enroll in a computer-based lab session and complete a term project involving real-world problems in data analysis. Dual listed with ENR 5525. Cross listed with GEOL 4525/5525. *Prerequisites:* A grade of C or better in STAT 2050 or STAT 2070 or MATH 2200, junior standing or higher, and completion of at least one upper-division course in the natural sciences or a related field.

4600. Campus Sustainability. 3. Uses campus as a setting to explore long-term environmental, economic, and social sustainability theory and practice. Students design and implement a semester-long project to improve sustainability of the UW campus. This interdisciplinary course is appropriate for students of all disciplines. Dual listed with ENR 5600; cross listed with MKT 4600. *Prerequisites:* junior or senior standing.

4550 [4700]. Negotiation Analysis. 3. Focuses on using an analytical perspective for maximizing joint gains between negotiators. Students learn analytical techniques to prepare for negotiation, evaluate options and proposals during a negotiation, and evaluate negotiated outcomes with respect to maximization of joint gains and fairness criteria. Dual listed with ENR 5550; Cross listed with AGECE 4550. *Prerequisite:* QA.

4750. ENR Law and Policy. 3. Explores the policy underpinnings of environmental and natural resource issues and the legal responses to these problems. Students will gain a basic understanding of: (1) the causes of environmental problems, including energy, water, wildlife, and other western land use issues; (2) the range of policy and instrument choices; and (3) the approaches actually taken in current laws. Students also will apply the law in an interdisciplinary, problem-based learning context. Dual listed with ENR 5750. *Prerequisites:* ENR 2000 and upper division standing or permission of instructor.

4800. Historic Preservation. 3. Review of the roots of historic preservation in Western culture with an emphasis on the historical and legal context of architectural conservation in America. Current issues in preservation are examined through case studies and guest presentations. Cross listed with AMST 4800. Dual listed with ENR 5800. *Prerequisite:* ARE 3020 or AMST 5400.

4890 [4990]. Topics in Environment and Natural Resources. 1-6.0 (Max. 12). Special topics in environment and natural resources are offered under this number. The specific subject matter varies each year because the course is normally taught by faculty who wish to present a specialized topic of interest to ENR and other students. Check class schedule for specific topics offered each year. Dual listed with ENR 5890. *Prerequisites:* ENR 3000 or permission of the instructor.

4900. ENR Policy in Practice. 3. [WC◀(none)] Encompasses student resolution in multidisciplinary teams of environmental and natural resource problems and issues; practice in formulating policy alternatives; case studies; planning, performing and coordinating multidisciplinary research. Dual listed with ENR 5900. *Prerequisite:* ENR 3000.

4950. Leadership in Natural Resources Management. 2. Provides Crew Leaders in the Wyoming Conservation Corps with an understanding of the complex dynamics of natural resources management while also equipping students with the tools to confidently lead groups of students on conservation-oriented service-learning projects on Wyoming's public lands during the summer months. Dual listed with ENR 5950; cross listed with ERS 4950. *Prerequisites:* ENR 3700 and consent of instructor.

4970. ENR Internship. 1-6.0 (Max. 6). Provides practical experience in environmental and natural resource policy, management and decision processes, as well as interaction with professionals in the field. Offered S/U only *Prerequisites:* ENR 3000.

5000. Approaches to Environment and Natural Resources Problem-Solving. 3. Explores important environmental policy, collaborative and adaptive decision-making and the integration of diverse disciplines in the study and resolution of complex ENR challenges. This is the first course in the ENR Capstone series (along with ENR 4900) and the students should take both capstone courses in the same academic year. Dual listed with ENR 4000. *Prerequisite:* USP WA course.

5030. Ecology of Knowledge. 3. Examines the development of “disciplines” and explores definitions, theories, methods and practices of interdisciplinary work. Cross listed with AMST 5030. Dual listed with ENR 4030. *Prerequisite:* graduate status.

5050. Techniques in Environmental Data Management. 4. Centers on the role of information technology in support of scientific research. Through integration of multiple software packages (e.g. Relational databases, ProgramR and ArcGIS), proven database designs, and SQL scripting, increased efficiency and utility will occur during data analyses. These information science principles are demonstrated using project-based examples. Cross listed with ECOL./GEOG 5050. *Prerequisite:* graduate standing.

5150. Environmental Science: Perspectives and Methods. 3. This course will use complex, real-world environmental challenges to explore fundamental scientific principles. Students will learn how scientists tackle environmental issues by formulating objectives, collecting and analyzing scientific data, as well as to critically evaluate information sources and limitations to scientific approaches due to constraints associated with each study. *Prerequisite:* graduate standing.

5285. Wildland Hydrology. 3. Teaches essential and unique characteristics of hydrologic cycle as occurs on range and forest lands, concentrating on quantification of these processes and storages. Cross listed with REWM 5285. Dual listed with ENR 4285. *Prerequisite:* graduate standing and University Studies QA.

5310. Environmental Anthropology. 3. Addresses how human societies interact with their surroundings, emphasizing cultural understandings of the environment. Introduces variety of theoretical and methodological approaches to topics ranging from problems of the American West to global environmental change. Cross listed with ANTH 5310. Dual listed with ENR 4310. *Prerequisite:* ANTH 1200.

5450. Negotiation. 3. Examines how to use negotiation to resolve conflict and get agreement. Describes conflict; outlines ways to address conflict; examines different negotiation strategies and the impact of cognitive bias, power, ethics, and individual and cultural differences; and explores mediation practices. Students complete negotiations, role-plays, and questionnaires. Cross listed with AGECE 5450. Dual listed with ENR 4450. *Prerequisite:* completion of USP O requirement; junior standing.

5500. Risk Analysis. 3. Introduces basic concepts of risk analysis, including risk perception, identification, assessment, communication, management, and policy. Provides quantitative treatment of risk assessment procedures, fundamental mathematical models, and the concepts of variability and uncertainty; and practical experience in risk analyses conducted by teams of students. Emphasizes environment and natural resource examples. *Prerequisites:* MATH 1000 or 1400, introductory statistics and familiarity with Excel spreadsheets.

5501. Risk Analysis Computer Laboratory. 1. Laboratory section in which students use computer software to apply Monte Carlo analysis and Decision Analysis to environmental case studies. Laboratory section facilitates application of principles of risk analysis in decision-making presented in lecture in ENR 5500. Dual listed with ENR 4501. *Prerequisite:* Concurrent enrollment in ENR 4500/5500.

5525. Environmental Data Analysis. 4. Explores fundamentals of environmental data analysis including the display and description of data, uncertainty propagation, statistical significance and power, t-tests, ANOVA, time series, serial correlation, multiple regression, and sample collection strategies. Students must enroll in a computer-based lab session and complete a term project involving real-world problems in data analysis. Dual listed with ENR 5525. Cross listed with GEOL 4525/5525.

5600. Campus Sustainability. 3. Uses campus as a setting to explore long-term environmental, economic, and social sustainability theory and practice. Students design and implement a semester-long project to improve sustainability of the UW campus. This is an interdisciplinary course and is appropriate for students of all disciplines. Dual listed with ENR 4600; cross listed with MKT 5600. *Prerequisite:* USP WB course.

5550 [5700]. Negotiation Analysis. 3. Focuses on using an analytical perspective for maximizing joint gains between negotiators. Students learn analytical techniques to prepare for negotiation, evaluate options and proposals during a negotiation, and evaluate negotiated outcomes with respect to maximization of joint gains and fairness criteria. Dual listed with ENR 4550; Cross listed with AGECE 5550. *Prerequisite:* QA.

5750. ENR Law and Policy. 3. Explores the policy underpinnings of environmental and natural resource issues and the legal responses to these problems. Students will gain a basic understanding of: (1) the causes of environmental problems, including energy, water,

wildlife, and other western land use issues; (2) the range of policy and instrument choices; and (3) the approaches actually taken in current laws. Students also will apply the law in an interdisciplinary, problem-based learning context. Dual listed with ENR 4750. *Prerequisites:* ENR 2000 and upper division standing or permission of instructor.

5800. Historic Preservation. 3. Review of the roots of historic preservation in Western culture with an emphasis on the historical and legal context of architectural conservation in America. Current issues in preservation are examined through case studies and guest presentations. Cross listed with AMST 5800. Dual listed with ENR 4800. *Prerequisite:* ARE 3020 or AMST 5400.

5890. Topics in Environment and Natural Resources. 1-6 (Max. 12). Special topics in environment and natural resources are offered under this number. The specific subject matter varies each year because the course is normally taught by faculty who wish to present a specialized topic of interest to ENR and other students. Check class schedule for specific topics offered each year. Dual listed with ENR 4890. *Prerequisite:* ENR 5000 or consent of instructor.

5900. ENR Policy in Practice. 3. Encompasses student resolution in multidisciplinary teams of environmental and natural resource problems and issues; practice in formulating policy alternatives; case studies; planning, performing and coordinating multidisciplinary research. Dual listed with ENR 4900. *Prerequisites:* graduate standing and ENR 5000.

5920. Collaboration Program in Natural Resources: Principles and Methods. 3. The first of two classes that together merit a Professional Certificate of Completion of the Collaboration Program in Natural Resources, this class provides graduate students with the leadership skills necessary to design, convene, and sustain a natural resource collaborative process with diverse stakeholders and implement its outcomes. *Prerequisite:* Admission by consent of instructor.

5921. Collaborations Program in Natural Resources: Practicum. 1 (Max. 3). The second of two classes that together merit a Professional Certificate of Completion of the Collaboration Program in Natural Resources, this class provides the practicum component where graduate students or professionals practice their collaborative leadership skills by conducting a situation assessment, designing and/or convening a natural resource collaborative process. *Prerequisite:* Admission by consent of instructor.

5950. Leadership in Natural Resources Management. 2. Provides Crew Leaders in the Wyoming Conservation Corps with an understanding of the complex dynamics of natural resources management while also equipping students with the tools to confidently lead groups of students on conservation-oriented service-learning projects on Wyoming's public lands during the summer months. Dual listed with ENR 4950; cross listed with ERS 5950. *Prerequisites:* ENR 3700 and consent of instructor.

Information Literacy

Coe Library 304

Phone: (307)766-2070

The University Libraries offer research assistance and information literacy instruction to students and faculty. Librarians provide customized class orientations to information sources in various disciplines, as well as individual research consultations. Students needing research help may call, email, instant message, or visit William Robertson Coe Library, or the Brinkerhoff Earth Resources Information Center.

The University of Wyoming addresses information competencies utilizing the framework of the Information Literacy Standards for Higher Education as approved by the Association of College & Research Libraries (ACRL) and endorsed by the American Association for Higher Education. Librarians collaborate with teaching faculty in addressing these information competencies in course assignments or lectures. Information literacy is the ability to recognize and define the need for information, then locate, evaluate, and use that information effectively and ethically.

University of Wyoming librarians have developed TIP: Tutorial for Info Power (<http://tip.uwyo.edu>) as a general introduction to information competencies. Students are required to work through the tutorial and pass the TIP quiz as part of the University Studies information literacy component. The TIP tutorial has been adapted for use at other institutions and has been recognized by the ACRL for inclusion in their Peer-Reviewed Instructional Materials Online database.

The Libraries also offer credit courses to help students improve research skills and to meet the information literacy requirement of the University Studies Program. Current offerings are restricted to upper-division students.

Learning Outcomes

We expect that students completing LBRY courses will become knowledgeable consumers of information through learning how to:

1. Recognize and define the need for information;
2. Efficiently locate information in the library or on the Internet;
3. Evaluate the quality of information;
4. Utilize information effectively, ethically, and legally.

Associate Librarians

KAIJSA J. CALKINS, B.A. University of Washington-Bothell 2001, M.L.I.S. University of Washington-Seattle 2004; Associate Librarian 2012, 2006.

JENNY GARCIA, B.A. Regis University 1989; M.L.S. Emporia State University 1992; Associate Librarian 2009, 2003.

CHERYL GOLDENSTEIN, B.A. Bethany College 1982; M.L.S. University of Texas at Austin 1997; Associate Librarian 2009, 2002.

DAVID D. KRUGER, B.S. South Dakota State University 1991; B.S.Ed. Minot State University 1994; M.A. Kansas State University 1996; M.L.S. University of Missouri at Columbia 1998; Associate Librarian 2004, 1998.

JENNIFER MAYER, B.A. University of Wyoming 1991; M.L.I.S. University of Oklahoma 1996; Associate Librarian 2005, 1999.

LAWRENCE SCHMIDT, B.S. Montana State University 1987; M.S. 1995; M.L.S. Emporia State University 2002; Associate Librarian 2008, 2002.

Assistant Librarians

KATE CONERTON, B.A. University of Wisconsin-Eau Claire 2011; M.L.I.S. University of British Columbia 2013; Assistant Librarian 2013.

JUDITH E. PASEK, B.S. University of Michigan Ann Arbor 1977; M.S. University of Missouri 1980; Ph.D. University of Nebraska 1987; M.L.I.S. Wayne State University 2013; Assistant Librarian 2013.

Information Literacy (LBRY)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [L◀(none)]).

3010. [L◀(none)] Research from a Distance. 1. Students locate, evaluate, and synthesize free and fee-based information resources used in academic and work environments, with a special focus on accessing information remotely. Course assignments are customized to student's academic major and career goals. Students discuss ethical and legal issues surrounding information use. *Prerequisites:* ENGL 1010 or equivalent, junior standing.

3020. Managing and Navigating the World of Information. 3. [L◀(none)] Prepares students to be knowledgeable consumers of information in our global, high-tech society. Skills taught will enable students to locate and manage information resources, preparing them for university level research and life after graduation. *Prerequisite:* USP WA course.

Intercollegiate Athletics

Fieldhouse North

Thomas K. Burman, Director

Phone: (307)766-2292 FAX: (307)766-5414

Web site: wyomingathletics.com

BRYAN BERRYHILL, B.S. Colorado State University 2001; Head Track and Field/Cross Country Coach 2012.

CRAIG P. BOHL, B.S. University of Nebraska-Lincoln 1982; Head Football Coach 2014.

THOMAS K. BURMAN, B.S. University of Wyoming 1988; M.B.A. Robert Morris University 1991; Director of Intercollegiate Athletics 2006.

MARK P. BRANCH, B.S. Oklahoma State University 1997; Masters in Athletic Administration 1999; Head Wrestling Coach 2008.

CHAD CALLIHAN, B.S. Radford University 2001; Head Women's Volleyball Coach 2013.

EDGAR DEAN CLOWER, B.A. Lamar University 2005; Head Women's Tennis Coach 2012.

TIM COLLINS, B.A. Loyola Marymount University 2005; M.S. Chadron State University 2008; Assistant Athletic Director for Development 2013.

PETER CUADRADO, B.A. Texas Christian University 2000; M.L.A. Valparaiso University 2002; Head Women's Soccer Coach 2012.

TYSON DREW, B.A. University of Idaho 2004; M.S. 2007; Assistant Athletic Director for Facilities and Event Management 2013.

ZACHARY P. DUVAL, B.S. University of Nebraska-Lincoln 2000; Director of Sports Performance/Head Football Strength Coach 2014.

TIMOTHY J. HARKINS, B.S. University of Kansas 1984; M.S. University of Tulsa 1992; Associate Athletic Director Media/Public Relations 2007, 1991.

FLOYD JOSEPH JENSEN, B.S. University of Wyoming 1998; Head Men's Golf Coach 2002.

THOMAS JOHNSON, B.A. University of Wyoming 1986; Head Swimming Coach 1998.

JOSEPH J. LEGERSKI, JR., B.S. University of Wyoming 1979; Head Women's Basketball Coach 2003.

KEVIN MCKINNEY, B.S. University of Wyoming 1971; Senior Associate Athletic Director for External Operations 1972.

JULIE D. MANNING, B.S. Iowa State University 1983; Senior Associate Athletic Director for Sports Administration/SWA 2014.

MATTHEW ORTEGA, B.S. New Mexico State University 2000; Spirit Program Coordinator/Head Coach 2014.

RYAN PINSON, A.A. University of Alaska 1996; B.S. Oregon State University 2000; M.E. Northern Arizona University 2004; Director of Sports Medicine 2013.

BRAD POE, B.S. University of Idaho 2003; General Manager Wyoming Sport Properties 2013.

NICHOLAS POPPLEWELL, B.S. University of Idaho 2008; M.E. University of Washington 2009; Assistant Athletic Director for Marketing and Branding 2012.

PETER PRIGGE, B.A. Marquette University 2009; J.D. 2012; Director of Compliance 2012.

ALBERT REISER, B.A. Lawrence University 2001; M.S. Indiana University 2006; M.S. 2008; Assistant Athletic Director/Academic Services 2014.

LARRY SHYATT, B.A. College of Wooster 1973; M.E. University of Akron 1975; Head Men's Basketball Coach 2011.

BILL SPARKS, B.S. Marshall University 1979; M.S. University of Georgia 1993; Sr. Associate Athletic Director for Business Operations 1998.

JOSEY STENDER, B.S. University of Memphis 2001; M.S. 2004; Head Women's Golf Coach 2005.

JOE VERSCHUEREN, B.A. Hope College 2004; M.S. Valparaiso University 2006; Assistant Athletic Director for Ticketing and Sales 2014.

RANDY WELNIAK, B.S. University of Wyoming 1988; M.B.A. 1989; Senior Associate Athletic Director for Development and Revenue Enhancement 2011.

MATTHEW J. WHISENANT, B.S. East Tennessee State University 1996; M.A. 1999; Deputy Director of Athletics 2002.

PHILLIP WILLE, B.A. Valparaiso University 2002; J.D. 2005; Associate Athletic Director for Internal Operations 2012.

Mission Statement

The University of Wyoming Department of Intercollegiate Athletics is committed to the development of tomorrow's leaders by creating an environment that promotes personal growth, academic and athletic excellence in a progressive, inclusive, and transparent manner. The Department of Intercollegiate Athletics will support the overall University of Wyoming mission, provide an outstanding fan experience, encourage community engagement, and serve as a source of pride for alumni, supporters, and the state of Wyoming.

Guiding Principles

- **Dedication to Student-Athletes:** We will promote the well-being of student-athletes and provide opportunities for academic, athletic, and personal success. We will foster academic excellence, graduate student-athletes, support their development as citizens, and prepare them to be leaders.
- **Integrity:** We will demonstrate integrity in all areas. We are dedicated to financial stability, rules compliance, diversity, and personal accountability.
- **Respect:** We will celebrate a climate of mutual respect, inclusiveness, loyalty, and sportsmanship by recognizing contributions to our teams, our department, and the university.
- **Competitive Success:** We will endeavor to be the very best when representing the University of Wyoming and our state. We are committed to providing the resources and personnel for our teams to achieve success.
- **Tradition:** The legacy of the University of Wyoming athletics is proud and strong. We will honor our outstanding tradition.
- **Excellence:** We believe in a spirit of comprehensive excellence. We will strive for excellence in all we do.

General Information

The University of Wyoming Department of Intercollegiate Athletics (DIA) consists of 17 teams competing at the NCAA Division I level: men's and women's basketball, men's and women's cross country, football (FBS), men's and women's golf, women's soccer, men's and women's swimming, women's tennis, women's volleyball, men's and women's indoor track, men's and women's outdoor track and wrestling. All sports are fully-funded up to the NCAA maximum for grant-in-aids (i.e., scholarships).

The University of Wyoming competes in the Mountain West Conference (MWC). In addition to the University of Wyoming the MWC consists of the U.S. Air Force Academy, Boise State University, Colorado State University, University of Nevada-Las Vegas, University of New Mexico, San Diego State University, and Texas Christian University.

The DIA is managed by the Director of Intercollegiate Athletics who reports directly to the President of the University. The Director of Intercollegiate Athletics ensures the department operates in a manner consistent with the rules and regulations of the University, the MWC and the NCAA.

*For additional information please visit the University's official athletic website at: www.gowoyogo.com

National Outdoor Leadership School

Administered jointly by the Office of Academic Affairs and the Center for Advising and Career Services

222 Knight Hall

Jo Chytka, Director

Center for Advising and Career Services

Phone: (307)766-2398 FAX: (307)766-2089; Web site: www.uwyo.edu/cacs

The University of Wyoming (UW) and National Outdoor Leadership School (NOLS) Articulation Agreement provides the opportunity for degree seeking UW students to receive UW academic credit for NOLS courses.

When NOLS students step into the world's wild places, they bring not only their backpacks, but also more than 40 years of experience in expeditioning. NOLS founder Paul Petzoldt's idea was simple: take people into the wilderness for an extended period of time, teach them the right things, feed them well and when they walk out of the mountains, they will be skilled leaders. The core of his idea was the extended expedition, one of sufficient length that a person could learn and practice the skills over and over again. That is the backbone of every NOLS course and today the school is widely recognized as the world's leader in the extended expedition, from two weeks to twelve.

This articulation agreement covers domestic and international NOLS originated semester-long courses. This agreement will also cover some individual short-term courses (14-45 days; including mountaineering, rock climbing, sailing, kayaking, skiing, snowboarding, and backpacking) and the Wilderness First Responder course ("WFR")

Application: Students Enrolled at UW

Students who have completed at least one semester at UW, and are in good standing for academics and conduct prior to the proposed period of study, may apply to receive articulated NOLS credit.

All students interested in obtaining internship course credits must be advised by the appropriate UW unit prior to taking the NOLS semester course.

Students enrolled in the NOLS program may apply their financial aid to the cost of the program if they are enrolled as a full-time degree seeking student at the University of Wyoming.

Credit and Credit Transfer

UW credit hours will be awarded in the approved courses, which require prior UW academic department and college approval, upon completion of the NOLS courses, provided a grade equivalent to a UW grade of C or better was obtained at NOLS.

Students should be aware that for internship credits to be awarded, additional academic work requirements determined by the internship course home will need to be met. Those additional requirements vary between academic programs and amount of credit desired, but may include a satisfactory evaluation from NOLS, a weekly journal, a substantial written report, and an oral presentation.

UW credit will not be awarded if the student withdraws or is expelled from the NOLS course.

Academic Advising

Prior to participating in a NOLS course for UW credit, students must contact the Director of the Center for Advising and Career Services, his/her designee, and the student's assigned adviser. These persons will approve the student's schedule, provide the appropriate course numbers, and liaise with the NOLS Registrar.

Students enrolling in NOLS semester long courses must register for a minimum of 12 UW credit hours for the participating semester.

UW students studying at NOLS will be bound by all rules, regulations and by-laws in operation at NOLS. In addition, since UW students remain enrolled as degree candidates at UW, they must also adhere to UW standards of conduct, rules and regulations. UW and NOLS both abide by the Federal Right to Privacy Act (FERPA).

Financial Arrangements

Each UW student will pay to NOLS:

- The NOLS tuition and related fees (any changes to be advised in writing by NOLS at least three months in advance of the change coming into effect), related fees would include equipment deposit;
- Complete medical and evacuation health insurance;
- Other fees (e.g. tuition protection program, local transportation, and gear purchases), air transportation and additional living expenses will be paid directly by the student to the provider of the service.

Each UW student will pay to the UW Outreach School

- The published per credit registration fees to register UW credits earned at NOLS

Approved NOLS Semester Courses

Semester in the Rockies
Teton Valley Semester
Outdoor Educator Semester
Semester in the Southwest
Semester in the Sonoran
Semester in Patagonia
Semester in Baja
Summer Semester in Australia
Semester on the Borders
Semester in the Yukon
Semester in Alaska
Semester in Australia
Semester in New Zealand
Semester in the Pacific Northwest
Semester in the Amazon
Semester in India
Year in Patagonia
Year in Sonoran

NOLS Courses

Absoraka Backpacking
 Wind River Mountaineering
 Rock Climbing
 Rock and River
 Whitewater River Expeditions
 Salmon Backpacking and Rafting
 Snowboarding
 Skiing
 Pacific NW Backpacking
 Himalaya Backpacking
 Himalaya Mountaineering
 Australia Backpacking
 and Sea Kayaking
 Australia Backpacking
 Patagonia Mountaineering
 Baja Sea Kayaking
 Yukon Outdoor Ed-
 Backpacking and River

Yukon Backpacking and River
 Alaska Mountaineering
 Denali Mountaineering
 Alaska Outdoor Ed-Backpacking
 and Sea Kayaking
 Brooks Range Backpacking and River
 Southwest Alaska Sea Kayaking
 23 and over Prince William
 Sound Alaska Sea Kayaking
 Amazon Basin River Expedition
 Mountain, River, Sea Kayaking,
 Sailing Instructor Courses
 Professional Instructor
 Baja Coastal Sailing
 Pacific Northwest Trip Leader
 North Cascades Mountaineering
 Waddington Range Mountaineering
 Pacific Northwest Outdoor
 Education Mountaineering

Pacific Northwest Sea
 Kayaking and Sailing
 Patagonia Mountaineering
 Patagonia Backpacking and Fly Fishing
 NOLS/Orvis Wilderness Fly Fishing
 Wilderness Horsepacking
 Rocky Mountain Outdoor Educator
 Scandinavian Backpacking
 Scandinavian Sea Kayaking
 and Backpacking
 Southwest Outdoor Educator
 Backpacking and Rock Climbing
 Southwest Lightweight Backpacking
 Winter Outdoor Educator
 New Zealand Backpacking
 Yukon Backpacking
 Yukon Backpacking and
 Wilderness Canoeing
 Alaska Backpacking and Packrafting
 Rocky Mountain Lightweight
 Backpacking

School of Energy Resources

Mark A. Northam, Director

338 Energy Innovation Center

Don Roth, Deputy Director for Academics

Phone: (307)766-6879 FAX (307)766-6701

Web site: www.uwyo.edu/ser

The School of Energy Resources facilitates interdisciplinary academic and research programs in engineering and science, economics, and environment and natural resources policy to address critical energy-related issues faced by our society.

Our mission is to leverage and add to the already significant energy-related talent and resources in the University of Wyoming colleges to develop human resources, know-how, and technical solutions to ensure a secure and sustainable energy future for the state, region, and nation.

Professors:

TIMOTHY J. CONSIDINE, B.A. Loyola University 1975; M.S. Purdue University 1977; Ph.D. Cornell University 1981; SER Professor of Energy Economics 2008.

CRAIG C. DOUGLAS, A.B. Chicago University 1977; M.S. Yale University 1978; M.Phil. 1980; Ph.D. 1982; SER Professor of Mathematics 2008.

SUBHASHIS MALLICK, B.Sc. Indian Institute of Technology 1976; M.Sc. 1978; Ph.D. University of Hawaii 1987; SER Professor of Geology & Geophysics 2008.

BRUCE A. PARKINSON, B.S. Iowa State University 1972; Ph.D. California Institute of Technology 1977; SER Professor of Chemistry 2008.

Associate Professors:

PO CHEN, B.S. Beijing University 2000; Ph.D. University of Southern California 2005; SER Associate Professor of Geology and Geophysics 2014, 2008.

MAOHONG FAN, B.S. Wuhan University of Science and Engineering, 1984; M.S. Beijing University of Science and Technology, 1992; Ph.D. Chinese Academy of Sciences, 1997; Ph.D. Iowa State University, 2000; Ph.D. Osaka University 2003; SER Associate Professor of Chemical Engineering 2008.

JOHN P. KASZUBA, B.S. Beloit College, 1982; M.S. Virginia Polytechnic Institute & State University 1986; Ph.D. Colorado School of Mines, 1997; SER Associate Professor Geology & Geophysics 2008.

MOHAMMAD PIRI, B.Sc. Azad University, Arak 1995; M.Sc. Azad University, Tehran 1998; M.Sc. Imperial College, London 2000; Ph.D. 2004; SER Associate Professor of Petroleum Engineering 2011, 2006.

Assistant Professors:

KRISTINA HUFFORD, B.A. University of California, Berkeley, 1993; Ph.D. University of Georgia, 2001; SER Assistant Professor of Rangeland Ecology and Watershed Management 2010.

DARIO GRANA, B.S. University of Pavia, 2003; M.S. 2005; M.S. University of Milano Bicocca, 2006; Ph.D. Stanford University, 2013; SER Assistant Professor of Geology and Geophysics 2013.

TARA RIGHETTI, B.A. University of Colorado Boulder 2005; J.D. 2007; SER Assistant Professor of Law 2014.

Adjunct Faculty

Vladimir Alvarado, Carrick Eggleston, K.J. Reddy, Victor Ginting, Robert Godby, Lamia Goual, Ye Zhang

Energy Resource Management and Development Bachelor of Science

One of the most important challenges of the 21st century will be to develop and manage energy resources in a sustainable manner. Projections show energy consumption worldwide will increase nearly 50 percent by 2035. And half of the leadership in the energy industries is expected to retire in the next five to ten years.

The future of energy will be characterized by increasing knowledge, relentless change, and technological innovation. As global energy industry increases in complexity, demand will dramatically grow for professionals with a multidisciplinary, entrepreneurial skill set. Future leaders must understand complex engineering and scientific technology within the context of business, legal, social and public policy in order to create comprehensive and sustainable solutions.

The Energy Resource Management and Development (ERM&D) B.S. program is designed to fill this need through a combination of rigorous courses, real-world internships, and undergraduate research experiences. It is a collaborative degree with the Colleges of Arts and Sciences, Agriculture and Natural Resources, Business, Engineering and Applied Sciences, and Law as well as the Haub School of Environment and Natural Resources. The curriculum balances depth of learning with breadth of understanding to train graduates for sustained competitive success in the energy workforce at the frontiers of knowledge and

for self-directed, life-long learning. Students learn to focus on continuous improvement, constant assessment and the importance of a sense of urgency and consideration of profit motive in the energy industry

Our program emphasizes career planning and provides constant one-on-one guidance and assistance to ensure optimal workforce placement. Students are strongly encouraged to complete an industry internship (minimum GPA requirement is typically 3.0). Opportunities are also available for undergraduate research, a study abroad experience or a summer field trip. Multiple events during the year connect students to energy industry professionals.

Required Academic Performance

The student must earn a letter grade of C or better in each course and a cumulative GPA of 2.0 or better.

Concentrations

The Energy Resource Management and Development program offers four concentrations and students must declare at least one concentration. They are professional land management; fossil fuels; energy air, land and water management; and renewable energy. The suggested course sequences are shown below.

Fossil Fuels Concentration Suggested Course Sequence

Freshman Year: Fall	Hours
First-Year Seminar (FYS).....	3
U.S. & Wyoming Constitutions (V).....	3
ENGL 1010 (COM1).....	3
MATH 2200 (Q).....	4
GEOL 1100 (PN).....	4
Total Hours	17

Freshman Year: Spring	Hours
PHYS 1210 (PN).....	4
ERS 1300.....	3
ACCT 1010.....	3
ENGL 2005 (COM2).....	3
MATH 2205 (Q).....	4
Total Hours	17

Sophomore Year: Fall	Hours
PHIL 2345 (H).....	3
CHEM 1020 (PN).....	4
MATH 2210.....	4
ECON 1020 (H).....	3
ES 1060.....	3
Total Hours	17

Sophomore Year: Spring		Hours
CHEM 1030 (PN).....	4	
ES 2310.....	3	
ES 2330.....	3	
PETE 2050.....	3	
MATH 2310.....	3	
Total Hours	16	

Junior Year: Fall		Hours
STAT 2050 (Q).....	4	
PETE 3255.....	3	
PETE 3265.....	2	
SOIL 3130.....	3	
ECON elective.....	3	
Total Hours	14	

Junior Year: Spring		Hours
PETE 3200.....	3	
GEOL 4190 or 4835.....	3	
PETE 3100.....	2	
FIN 3250.....	3	
MGT 3210.....	3	
Total Hours	14	

Senior Year: Fall		Hours
Upper division general elective.....	3	
REWM 4200.....	3	
AGEC/ENR 4450 or AGEC/ENR 4550.....	3	
ENR 4500.....	3	
ENR 4501.....	1	
ENR 4750.....	3	
Total Hours	16	

Senior Year: Spring		Hours
ERS 4900 (COM3).....	3	
DSCI 4260.....	3	
Practicum elective.....	3	
General elective.....	7	
Total Hours	16	
Total Credit Hours	128	

*Please see the School of Energy Resources for an approved list of general electives, economics electives, and practicum electives.

**Renewable Energy Concentration
Suggested Course Sequence**

Freshman Year: Fall		Hours
First-Year Seminar (FYS).....	3	
U.S. & Wyoming Constitutions (V).....	3	
ENGL 1010 (COM1).....	3	
MATH 2200 (Q).....	4	
ES 1060.....	3	
Total Hours	16	

Freshman Year: Spring		Hours
ERS 1300.....	3	
ACCT 1010.....	3	
ENGL 2005 (COM2).....	3	
MATH 2205 (Q).....	4	
ES 2110.....	3	
Total Hours	16	

Sophomore Year: Fall		Hours
MATH 2210.....	4	
PHYS 1210 (PN).....	4	
ECON 1020 (H).....	3	
CHEM 1020 (PN).....	4	
Total Hours	16	

Sophomore Year: Spring		Hours
STAT 2050 (Q).....	4	
ES 2310.....	3	
ES 2330.....	3	
MATH 2310.....	3	
CHEM 1030 (PN).....	4	
Total Hours	17	

Junior Year: Fall		Hours
ES 2210.....	3	
PHIL 2345 (H).....	3	
SOIL 3130.....	3	
FIN 3250.....	3	
ES 2410.....	3	
Total Hours	15	

Junior Year: Spring		Hours
ERS/CHEM 4050.....	3	
MGT 3210.....	3	
ME 3360.....	3	
ECON elective.....	3	
General elective.....	3	
Technical elective.....	3	
Total Hours	18	

Senior Year: Fall		Hours
General elective.....	3	
REWM 4200.....	3	
AGEC/ENR 4450 or AGEC/ENR 4550.....	3	
ENR 4500.....	3	
ENR 4501.....	1	
ENR 4750.....	3	
Total Hours	16	

Senior Year: Spring		Hours
ERS 4900 (COM3).....	3	
DSCI 4260.....	3	
ME 4460.....	3	
ME 4470.....	3	
Practicum.....	3	
Total Hours	15	
Total Credit Hours	128	

*Please see the School of Energy Resources for an approved list of general electives, economics electives, and technical electives.

**Energy Air, Energy Land and Water
Management Concentration
Suggested Course Sequence**

Freshman Year: Fall		Hours
First-Year Seminar (FYS).....	3	
U.S. & Wyoming Constitutions (V).....	3	
MATH 2200 (Q).....	4	
ENGL 1010 (COM1).....	3	
LIFE 1010 (PN).....	4	
Total Hours	17	

Freshman Year: Spring		Hours
ES 1060.....	3	
ACCT 1010.....	3	
ERS 1300.....	3	
ENGL 2005 (COM2).....	3	
ECON 1020 (H).....	3	
Total Hours	15	

Sophomore Year: Fall		Hours
LIFE 2023.....	4	
CHEM 1000 or 1020 (PN).....	4	
REWM 2000.....	3	
STAT 2050 (Q).....	4	
Total Hours	15	

Sophomore Year: Spring		Hours
SOIL 2010.....	4	
LIFE 3400.....	3	
GEOG 2150.....	4	
PHIL 2345 (H).....	3	
General elective.....	3	
Total Hours	17	

Junior Year: Fall		Hours
REWM 2500.....	2	
REWM 3100.....	3	
SOIL 3130.....	3	
AGEC 3400.....	3	
FIN 3250.....	3	
General elective.....	3	
Total Hours	17	

Junior Year: Spring		Hours
AGEC 3750.....	3	
REWM 4710.....	3	
MGT 3210.....	3	
General elective.....	3	
ERS 3010.....	3	
Total Hours	15	

Senior Year: Fall		Hours
AGEC/ENR 4550.....	3	
REWM 4200.....	3	
ENR 4500.....	3	
ENR 4501.....	1	
ENR 4750.....	3	
GEOG 4200.....	4	
Total Hours	17	

Senior Year: Spring		Hours
ERS 4900 (COM3).....	3	
AGEC/ENR 4450.....	3	
DSCI 4260.....	3	
Practicum elective.....	3	
REWM 4580.....	3	
Total Hours	15	
Total Credit Hours	128	

*Please see the School of Energy Resources for an approved list of general electives and practicum electives.

Professional Land (Landman) Management Concentration Suggested Course Sequence	
Freshman Year: Fall	Hours
First-Year Seminar (FYS).....	3
U.S. & Wyoming Constitutions (V).....	3
ENGL 1010 (COM1).....	3
MATH 2200 or 2350 (Q).....	4
GEOL 1100 (PN).....	4
Total Hours	17
Freshman Year: Spring	Hours
ECON 1020 (H).....	3
ERS 1300.....	3
ACCT 1010.....	3
ENGL 2005 (COM2).....	3
MATH 2205 or 2355 (Q).....	4
Total Hours	16
Sophomore Year: Fall	Hours
ACCT 1020.....	3
IMGT 2400.....	3
PHIL 2345 (H).....	3
STAT 2050 (Q).....	4
CHEM 1000 or 1020 (PN).....	4
Total Hours	17
Sophomore Year: Spring	Hours
MGT 1040.....	3
MGT 3210.....	3
MKT 3210.....	3
FIN 3250.....	3
GEOG 2150.....	4
ERS 4985.....	1
Total Hours	17
Junior Year: Fall	Hours
DSCI 3210.....	3
AGEC 3400.....	3
AGEC/ENR 4550.....	3
ENR 4750.....	3
GEOG 4200.....	4
Total Hours	16
Junior Year: Spring	Hours
AGEC 3750.....	3
GEOL 4190.....	3
DSCI 4260.....	3
REWM 4710.....	3
AGEC/ENR 4450.....	3
ERS 4985.....	1
Total Hours	16
Senior Year: Fall	Hours
ENR 4500.....	3
ENR 4501.....	1
LAW 6120.....	3
LAW 6170.....	1
LAW 6790.....	3
LAW 6800.....	3
Total Hours	14

Senior Year: Spring	Hours
ERS 4900 (COM3).....	3
LAW 6735.....	3
General electives.....	9
Total Hours	15
Total Credit Hours	128

*Please see the School of Energy Resources for an approved list of general electives.

Concurrent Major in Environment and Natural Resources

A student majoring in Energy Resource Management and Development (ERM&D) program may earn a double major by completing the courses required for the Environment and Natural Resources (ENR) program in addition to the ERM&D requirements. Visit www.uwyo.edu/enr for the ENR requirements.

Minors

Students looking to create a focus for their coursework can add minors to the ERM&D program. Courses applying towards the minor must be completed with a grade of "C" or better. Visit the college or department web sites for a description of the minors.

College of Agriculture and Natural Resources

- Natural Resource Economics
- Rangeland Ecology and Watershed Management
- Reclamation and Restoration Ecology
- Soil Science

College of Arts and Sciences

- Biology
- Chemistry
- Foreign Language
- Geography
- Geographic Information Sciences
- Planning
- Geology
- Mathematics
- Physics
- Professional Writing
- Public Relations

College of Business

- Accounting
- Business
- Decision Science
- Economics
- Entrepreneurship
- Finance
- International Business
- Management
- Marketing
- Sustainable Business Practices

Haub School

- Environment and Natural Resources
- Sustainability

School of Energy Resources (ERS)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB◀▶Q]).

1000. Energy and Society. 3. [O◀▶(none)] Introduces humans' past, present, and future sources of energy and their advantages and limitations. Discusses society's current, non-sustainable pattern of energy use from a supply and environmental perspective. Investigates the technical, environmental, political, and societal problems associated with the eventual conversion to renewable energy resources. Cross listed with ENR 1000.

1101. First-Year Seminar. 3. [(none)◀▶FYS]
1300. Oil: Business, Culture, and Power. 3. [CS,G◀▶(none)] A multi-disciplinary approach to understanding how oil affects the international relations and commerce. The relationships between oil technology, social and political institutions, the unique cultures in oil-producing regions will be investigated in case studies. Cross listed with ECON 1300.

2500. Communication Across Topics in Energy. 3. Students will develop skills in written, oral, and digital communication as appropriate to all specializations within the School of Energy Resources, all allied disciplines, and coursework at all levels. Through repeated instruction, practice, and feedback, the communication sequence will emphasize and progressively develop transferable skills for students' academic work and future professions within Energy Resources. ERS will emphasize foundational oral and digital communication skills and continue to build on writing skills. *Prerequisites:* ERS 1300 or ECON 1300 and WA/COM1.

3010. Air Quality Management. 3. Provides an overview of air quality management approaches. In this course an interdisciplinary approach is adopted that includes diverse information from physical, natural and socioeconomic systems. With consideration of global and local issues this class focuses upon the energy sector. *Prerequisites:* CHEM 1000 or CHEM 1020 and WA or COM1.

4050. Solar Energy Conversion. 3. Provides an overview of the science behind current and future solar thermal and photovoltaic technologies. Environmental aspects, legal issues

and cost associated with solar energy will also be included. Cross listed with CHEM 4050. *Prerequisites:* CHEM 1030 or CHEM 1060 and PHYS 1210 or PHYS 1310 and MATH 2200. (Offered spring semester)

4900. Energy Resource Management Capstone. 3. [WC◀(none)] Required to work within an integrated team to research and analyze data to inform an energy resource management plan. Apply the content knowledge and process skills learned throughout the program and further refine their ability to communicate with professional, academic, and public audiences through writing and oral presentation. *Prerequisites:* AGECE 3400, ENR 3000/4000 or GEOG/ESS 3480.

4950. Leadership in Natural Resources Management. 2. Provides Crew Leaders in the Wyoming Conservation Corps with an understanding of the complex dynamics of natural resources management while also equipping students with the tools to confidently lead groups of students on conservation-oriented service-learning projects on Wyoming's public lands during the summer months. Dual listed with ERS 5950; cross listed with ENR 4950. *Prerequisites:* ENR 3700 and consent of instructor.

4960. Energy Field Studies. 2. Various facets of energy resource management and development are covered by visits to oil and gas wells, coal mines, power plants, wind farms, uranium sites and other energy production and research sites. A trip is normally planned for 8 to 10 days. *Prerequisites:* USP WA course; ERS 1000 or 1300.

ERS 4965. Undergraduate Research. 1-3 (Max. 6). Research activities on an energy-related project of limited scope or as part of a laboratory project of greater scope under the advisement of a faculty member. Students will work 4 to 10 hours per week. Students will submit a written report summarizing the results of the research. *Prerequisite:* WA; SP or SE.

4970. Internship. 1-3 (Max. 3). A formalized internship designed to provide students with relevant practical experience in the energy sector allowing synthesis and application of principles in energy science to energy asset management. *Prerequisites:* ERS/ENR 1000 or ECON/ERS 1300; QB; SP or SE.

4975. Global Experience in Energy. 2-4 (Max. 4). A 1-3 month integrative energy experience in China or Australia. Students will participate, in collaboration with partnering energy professionals, in outcomes focused education and research programs designed to address globally relevant challenges. Students will gain a global perspective within the cultural context of the partner institution. *Prerequisites:* ERS/ENR 1000 or ECON/ERS 1300; QB; SP or SE.

4985. Seminar. 1-3 (Max. 3). Energy professionals, including accredited professional landmen, practicing attorneys, and other energy professionals will present a colloquium styled course to bridge conceptual content with realistic workforce focused applications. *Prerequisites:* ERS/ENR 1000 or ECON/ERS 1300 and WA and QB.

4990. Topics in Energy Resource Development and Management. 1-6 (Max. 6). Special topics in contemporary energy development and management will be offered in response to changing industry and academic demands. The specific subject matter is based on faculty requirements and workforce innovation. *Prerequisites:* QA and one of the following: SB, SP or SE course.

5950. Leadership in Natural Resources Management. 2. Provides Crew Leaders in the Wyoming Conservation Corps with an understanding of the complex dynamics of natural resources management while also equipping students with the tools to confidently lead groups of students on conservation-oriented service-learning projects on Wyoming's public lands during the summer months. Dual listed with ERS 4950; cross listed with ENR 5950. *Prerequisites:* ENR 3700 and consent of instructor.

The University Honors Program provides academically ambitious students with a series of curricular and co-curricular opportunities. Through these opportunities, students gain the breadth of knowledge needed by citizens, professionals, and family members to be effective in many different pursuits. Honors students learn to write cogently for a variety of audiences and to become skilled in writing in their disciplines. They learn to locate and use reliable information and trustworthy opinion. Through appropriate coursework, they learn how to become engaged citizens and to understand the ethnic and cultural diversity of America and the world. They learn the purposes and values of the arts, humanities, and social sciences. The capstone senior honors project is a sustained research or creative activity through which students demonstrate what they have learned: to formulate a project independently, to develop the intellectual and creative means to complete it, and to write and speak effectively about their work.

Admission

Most students join the program prior to their freshman year. Freshman applicants meet at least one of the following criteria: a composite ACT score of 28, or a combined verbal and quantitative SAT score of 1240, or a high school GPA of 3.7.

The program also welcomes UW and transfer students up to the beginning of the junior year. To join, these students need an overall college GPA of 3.25.

Interested high school seniors and transfer students are encouraged to come by the Honors Program Office (Red House 116) or to write to the Director, University Honors Program, Dept. 3413, 1000 University Ave, Laramie, WY 82071. The email address is honors@uwyo.edu.

Scholarships

At least 20 entering freshmen and transfer students will receive four-year scholarships in amounts ranging from \$1,000 to \$4,000. Other scholarships are awarded annually to honors students, including scholarships for off-campus study. Applications are due between January 15th and March 13th.

Program Requirements

Once enrolled, honors students take five innovative and intellectually challenging core courses. In the freshman year, students take the two-semester Freshman Honors Colloquium which introduces the history of western culture by studying classics from various times and their contexts. In the first semester, students can fulfill the freshman writing requirement by enrolling in HP 1020 (W1); freshmen who have already met the composition requirement take HP 1151. All freshman honors students then take HP 2020 in the spring. Thereafter, students enroll in one honors course each year: Non-Western Perspectives for sophomores; Modes of Understanding for juniors; and a Senior Honors Seminar. Each of these courses fulfills graduation requirements.

The capstone senior honors project assures that students gain research or creative experience in an area of their interest. These projects often lead to graduate studies or a special career path.

To continue in the program, students must maintain a cumulative grade point average of 3.25. Students whose GPA falls below 3.25 are placed on probation.

Successful completion of the program is indicated on transcripts and diplomas, and seniors are recognized at graduation ceremonies.

Honors courses are restricted to honors program students; exceptions must be approved by the Honors Program Office.

Honors Program (HP)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB◀▶Q]).

1000. Intellectual Communities. 1. [I◀▶(none)] Queries the nature, functions, and benefits of intellectual communities from the ancient world to present. *Prerequisite:* Concurrent enrollment in HP 1020, HP 1151 or HP 1161.

1020. Freshman Honors Colloquium I. 3. [WA,L◀▶COM1] Composition course. Provides innovative writing instruction to honors students while introducing works and history of Western culture. Particularly emphasizes analytical reading and writing. *Prerequisite:* participation in UW Honors Program. (Offered fall semester)

1151 [1150]. Freshman Honors Colloquium I. 3. [CH,L◀▶H] Studies significant works in the history of Western civilization to the Renaissance, both in their historical context and in relation to one another. For entering freshmen who have already fulfilled the WA requirement. *Prerequisite:* participation in the UW Honors Program. (Offered fall semester)

1200. American and Wyoming Government. 3. [V◀▶(none)] Introduction to the constitutions and governmental processes of Wyoming and the United States. *Prerequisite:* participation in UW Honors Program.

2020 [1160,1161]. Colloquium II. 3. [WB,O◀▶COM2] Continues study of significant works in Western and Eastern literary, scientific and philosophical traditions begun in Colloquium I. Assignments focus on using critical discourse, historical research, and textual analysis to produce effective written compositions and oral presentations. *Prerequisite:* WA.

2151, 2152, 2153 [2150]. Non-Western Perspectives. 3 (Max. 6). [(none)◀▶H] Explores issues central to human experience from perspectives of non-western peoples. Topics vary from year to year. Required of UW Honors Program students. *Prerequisites:* sophomore standing and participation in UW Honors Program.

3151, 3152, 3153 [3150]. Modes of Understanding. 3 (Max. 6). Introduces study of nature and grounds of knowledge, its limits and validity. Examines epistemological basis of selected areas of academic thought. Topics vary from year to year. Required of UW Honors Program students. *Prerequisites:* junior standing and participation in UW Honors Program.

4151, 4152, 4153 [4150]. Senior Honor Seminar. 3 (Max. 6). Asks students to confront a complex social issue, examine it from several perspectives and take a stance on some aspect of the issue. Topics vary from year to year. Required of UW Honors Program students. *Prerequisites:* senior standing and participation in UW Honors Program.

4154. Senior Honors Seminar. 3. Asks students to confront a complex social issue, examine it from several perspectives and take a stance on some aspect of the issue. Topics vary from year to year. Required of UW Honors Program students. *Prerequisites:* senior standing and participation in the UW Honors Program.

4975. Independent Study. 1-3 (Max. 6). [WC♦(none)] Supervised study and investigation in topics related to students' research.

4976. Independent Study. 1-3 (Max. 6). Supervised study and investigation in topics related to student's research.

4990. Topics: ____ . 1-3 (Max. 6). Accommodates a senior seminar series or a course offering by visiting faculty whose subject matter is not included in other course offerings. (Offered based on sufficient demand and resources)

UWYO courses are designed to help students acculturate to college life and coursework and learn key academic skills. Course content is combined with training in critical reading, academic writing, research, formal presentation, and many other emphases. UWYO courses have low student-teacher ratios in an effort to help students experience richer connection with the instructor and students in the course. Most UWYO courses imbed intellectual self-awareness within the course goals. Several UWYO courses are part of UW learning communities and provide additional opportunities for students to engage with and work together in their cohort.

For more information on the Synergy program and courses, contact Jessica Willford at synergy@uwyo.edu. For more information on Student Success Services, contact Sandy Straley at (307) 766-6189; sstrale2@uwyo.edu.

UWYO (UWYO)

USP Codes are listed in brackets by the 2003 USP code followed by the 2015 USP code (e.g. [QB4Q]).

1000. IC for Undeclared Students. 2. [I,L4(none)] An introduction to the intellectual community of the University of Wyoming, information literacy, and higher education in general, and is specifically intended for students who have not yet made a decision about their college major. Students will begin to develop the critical thinking skills that are necessary in higher education and to explore the primary intellectual activities of various disciplines. Cross listed with A&S 1000.

1050. Student-Athlete First Year Seminar. 1. Introduces first-year student athletes to U.W. Includes an introduction to campus resources, time management and study skill techniques, exploration of learning styles, diversity topics, and strategic goal setting to be a successful student and athlete. S/U only.

1101. First-Year Seminar. 3. [(none)4FYS]

1105. Academic Success Skills. 2. Designed to provide students the necessary skill set to succeed at the University and beyond. Skills covered include time management, learning styles, note taking, self-motivation and more.

1205. Student Success Services First Year Seminar. 1. [I,L4(none)] First year students enrolled in the Student Success Services project will learn how to utilize campus resources and understand, her/his interests and values and develop the ability to establish and work toward short-term and long-term career goals, apply personalized study strategies and interpret university, college, and departmental rules and regulations. *Prerequisite:* Freshman only (exclusively for students who are part of the SSS project).

1210. First Year Experience Seminar II. 1. Provides students opportunities to explore career options that match their personality profile; create goals to optimize their college years; understand the value of service learning in their college and professional careers, and recognize how awareness of self and others leads to success in college and their professional careers. Satisfactory/unsatisfactory only. *Prerequisite:* UWYO 1205.

1450. Critical Reflection in Intellectual Communities. 3. [I,L4(none)] Intellectual Community course for the Synergy learning community. Supports WA reading, research, and writing activities. Provides opportunities for students to read critically, conduct primary and secondary research, investigate diversity issues, develop computer literacy, and learn about the intellectual expectations of college life. Unaffiliated with a major department.

1600. Veterans Transition Course. 1. [I,L4(none)] Provides returning veterans skills for successful transition to college life. Reviews basic tools for academic success, resources available to the returning veteran, and information on veteran related challenges. Students will write a reflective paper and also a career plan. (Normally offered fall semester)

3000. Student Leadership in Supplemental Instruction. 2. Focuses on theoretical perspectives of group tutoring and peer leadership, best practices in supplemental instruction, and student reflection. Will strengthen leadership knowledge and skills and introduce effective methods for group facilitation and SI curriculum. *Prerequisite:* closed to general enrollment.

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- AADLAND, DAVID M.,
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- ABERNETHY, ROLLIN H., Plant Sciences
- ACKERMAN, JOHN, Chemical and
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- ADELT, ULRICH, African American and
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- AGRAN, MARTIN, Professional Studies
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- BARSTOW, SANDRA M., University Libraries
- BARTSCH ESTES, KAREN, Psychology
- BASILE, FRANCO, Chemistry
- BASKIN, JASON, English
- BASTIAN, CHRISTOPHER T., Agricultural
and Applied Economics
- BAUMBACH, DIANE, Art
- BECK, CATHERINE, Nursing
- BECK, JEFFREY L., Ecosystem
Science and Management
- BECKETT, CARLA DEE, Chemistry
- BELL, DAVID A., Chemical and
Petroleum Engineering
- BELLAMY, CHERI, Nursing
- BELLAMY, WILLIAM, Civil and
Architectural Engineering
- BELMONT, ERICA L., Mechanical Engineering
- BELSER, ROBERT, Music
- BEN-DAVID, MERAV, Zoology and Physiology
- BENHAM DEAL, TAMI,
Kinesiology and Health
- BENJAMIN, KAREN S., Nursing
- BENKMAN, CRAIG, Zoology and Physiology
- BENSON-AMRAM, SARAH,
Zoology and Physiology
- BERGMAN, HAROLD L.,
Zoology and Physiology
- BERGSTRAESSER, PAUL, English
- BESSAIH, HAKIMA, Mathematics
- BIALOSTOK, STEVEN, Elementary/
Early Childhood Education
- BIEBER, STEPHEN L., Statistics
- BIEHLE, LAUREN R., Pharmacy
- BILLINGTON, COREY, Management
and Marketing
- BINGHAM, BEAU, Communication
and Journalism
- BIRD, MICHELE, Statistics
- BITTNER, MARK, Family and
Consumer Sciences
- BISHA, BLEDDAR, Animal Science
- BJÖRKENWALL, RUTH, Global
and Area Studies
- BLISS, DONNA LEIGH., Social Work
- BOARDMAN, CALEB, Animal Science
- BODDICKER, MAUREEN, Music
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- BOLLIGER, DORIS, Professional Studies
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Architectural Engineering
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Physics and Astronomy
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Consumer Sciences
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and Journalism
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and Natural Resources, Ecosystem
Science and Management
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- BUSH, ERIN J., Communication Disorders
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Childhood Education
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and Consumer Sciences
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Geology and Geophysics
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and Physiology
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and Natural Resources
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- CARRON, REBECCA, Nursing
- CAWLEY, GREGG, Political Science
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Geology and Geophysics
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Elementary/Early Childhood
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and Geophysics
- CHECA-GARCÍA, IRENE, Modern
and Classical Languages
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- CHEN, YI-LING, Global and Area
Studies, Geography

- CHERRINGTON, BRIAN D.,
Zoology and Physiology
- CHESTEK, KENNETH D., Law
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and Geophysics
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Architectural Engineering
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Science and Management
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and Women's Studies
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Economics and Finance
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Communication Disorders
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and Applied Economics
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and Journalism
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Geology and Geophysics
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- DAI, QILIN, Physics and Astronomy
- DALE, DANIEL, Physics and Astronomy
- DALRYMPLE, HOLLY, Music
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Communication Disorders
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Mechanical Engineering
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Classical Languages
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and Women's Studies
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Architectural Engineering
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Architectural Engineering
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and Classical Languages
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Theatre and Dance
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Management and Marketing
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and Computer Engineering
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Geology and Geophysics
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Geology and Geophysics
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Applied Economics
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and Applied Economics
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- ENLOW, ANN, Nursing
- ENRIGHT, MICHAEL, Nursing
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Architectural Engineering
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- ESTES, DAVID, Psychology
- ETHIER, MARLENE, Nursing
- ETTEMA, ROB, Civil and
Architectural Engineering
- EVERS, JACK, Chemical and
Petroleum Engineering
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- EWIG, RICHARD G., American
Heritage Center
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- FALL, TYLER S., Religious Studies
- FAN, MAOHONG, Chemical and
Petroleum Engineering
- FARRELL, MARY M., University Libraries
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- FELDMAN, STEPHEN M., Law
- FERRE-PIKAL, EVA S., Electrical
and Computer Engineering
- FERTIG, RAY, Mechanical Engineering
- FINE, PETER, Art
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- FONESCA, VANESSA, Latina/o
Studies, English
- FORBES, ERIN, English
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- FORD, DAWN, Nursing
- FORRESTER, JENNIFER HARRIS,
Elementary and Early
Childhood Education
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and Applied Economics
- FOX, JONATHAN H., Veterinary Sciences
- FOX, LANAE, Pharmacy
- FRANCIS, MATTHEW, American
Heritage Center
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- FRENG, ADRIENNE B., Criminal Justice
- FRENG, SCOTT, Psychology
- FRICK, CARL, Mechanical Engineering
- FROST, B. RONALD, Geology and Geophysics
- FROST, CAROL D., Geology and Geophysics
- FURTADO, FREDERICO da
CUNHA, Mathematics
- GABRIELSON, TEENA J., Political Science
- GAMBOA, RUBEN, Computer Science
- GALBREATH, PAMELA, English
- GALEY, FRANCIS D., Veterinary Sciences
- GANTENBEIN, REX E., Medical
Education and Public Health
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Communication Disorders
- GARDZELEWSKI, JON, Civil and
Architectural Engineering
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- GARNICH, MARK R., Mechanical Engineering
- GARRISON, JEAN A., Political Science,
Global and Area Studies
- GASEM, KHALED A.M., Chemical
and Petroleum Engineering
- GATLIN, JESSE, Molecular Biology
- GAUDREAU, KAREN,
Kinesiology and Health
- GEERTS, BART, Atmospheric Science
- GERINGER, JENNIFER, Elementary
and Early Childhood Education
- GEROW, KENNETH, Statistics
- GIGLEY, JASON, Molecular Biology
- GILBERT, BENJAMIN T.,
Economics and Finance
- GILLIS, VICTORIA, Secondary Education
- GILLS, MARY, Nursing
- GILMAN-KEHRER, ESTHER, Nursing
- GINTING, VICTOR, Mathematics
- GLASSCOCK, ROBSON, Accounting
- GLOVER, MARK, Law

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Economics and Finance
GOHEEN, JACOB R., Zoology and Physiology
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University Libraries
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American Heritage Center
GOMELSKY, MARK, Molecular Biology
GOOD, JULIAN, Nursing
GOODIN, SUSANNA L., Philosophy
GOODSON, PATRICIA A., Chemistry
GOODWIN, ELIZABETH, Nursing
GOUAL, LAMIA, Chemical and
Petroleum Engineering
GRAHAM, ANDREA, American Studies
GRANA, DARIO, Chemical and Petroleum
Engineering; Geology and Geophysics
GRANDJEAN, BURKE, Statistics
GRAY, MATTHEW J., Psychology
GREASER, CHRISTIAN, Modern
and Classical Languages
GREENE, MARK A., American
Heritage Center
GRIBB, WILLIAM J., Geography
GRIESMAIER, FRANZ-PETER, Philosophy
GRIFFITH, MICHAEL, Music
GUIBERSON, MARK,
Communication Disorders
GUO, WEL, Animal Science
GUSEMAN, EMILY, Kinesiology and Health
GUZZO, ANNE, Music
HAGER, MARY SUE, Nursing
HALL, CHRISTOPHER, Mathematics
HALL, MARILYN, Nursing
HALL JR., ROBERT O., Zoology
and Physiology
HAMANN, JERRY C., Electrical
and Computer Engineering
HAMERLINCK, JEFFREY,
Geography, WyGISC
HAMILTON, DEBRA, Nursing
HAMILTON, TIMOTHY, Army ROTC
HAN, CHUNG-SOUK, Mechanical
Engineering
HAN, TAO, Elementary and Early
Childhood Education
HANEY, CAROLYN, Social Work
HANSEN, KRISTIANA M., Agricultural
and Applied Economics
HARBOUR, CLIFF, Professional Studies
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Communication Disorders
HARDY, LEAH, Art
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and Women's Studies
HARKIN, MICHAEL E., Anthropology
HARROLD, PAUL, Army ROTC
HARSHBERGER, CARA, Pharmacy
HART, ANN MARIE, Nursing
HARTMAN, RONALD L., Botany
HARTUNG, CYNTHIA M., Psychology
HARVEY, JARON, Management and Marketing
HAYDON, MARGARET, Art
HAYES, SHAUN, American Heritage Center
HAYNES, CHRIS, Secondary Education
HE, GUANGLONG, Pharmacy
HEANEY, APRIL, English; Learn
HEINZ, PETRA, Modern and
Classical Languages
HEINZ, STEFAN, Mathematics
HEITHOLT, JIM J., Plant Sciences
HELFGOTT, ISADORA, History
HELLER, PAUL L., Geology and Geophysics
HELMSING, MARK, Secondary Education
HENDRYX, JASON, Secondary Education
HENKEL, SCOTT, English
HENNE, ADAM, Global and Area
Studies, Anthropology
HENSEL, LARRY L., Music
HERBERT, STEPHEN K., Plant Sciences
HERMANSEN-KOBULNICKY,
CAROL, Pharmacy
HERT, TAMSEN L., University Libraries
HESS, BRET W., Animal Science
HEWLETT, JOHN, Agricultural
and Applied Economics
HIDECKER, MARY JO C.,
Communications Disorders
HILAIRE, MICHELLE L., Pharmacy
HILD, ANN L., Ecosystem Science
and Management
HILGERT, CHRIS, Plant Sciences
HILL, ROBIN, Elbogen CTL
HITCHCOCK, JOHN M., Computer Science
HIX, HARVEY, Philosophy
HOBART, SYLVIA A., Mathematics
HOBERG, JOHN O., Chemistry
HODGSON, LEE, Theatre and Dance
HODZA, PADDINGTON, WyGISC
HOLBROOK, W. STEVEN,
Geology and Geophysics
HOLLAND, JEANNE E., English
HOLLES, JOSEPH, Chemical and
Petroleum Engineering
HOLMES, MALCOLM D., Sociology
HOLT, PHILIP, Modern and Classical Languages
HORNECKER, JAMIE R., Pharmacy
HOUSEAL, ANA, Elementary and Early
Childhood Education, Science and
Mathematics Teaching Center
HOWARD, GEORGE, Agriculture
and Natural Resources
HOWELL, ROBERT R., Geology
and Geophysics
HSU, SANDY, Communication and Journalism
HUIZINGA, SHARON, Theatre and Dance
HUFFORD, KRISTINA, Ecosystem
Science and Management
HUGHES, CYNTHIA D., University Libraries
HULIN, BRYAN K., Army ROTC
HULLEY, ELLIOTT, Chemistry
HUMPHREY, NEIL F., Geology and Geophysics
HUNT, ELIZABETH, Art
HUNTER, MELISSA, Pharmacy
HUTCHENS, CHAD, University Libraries
HUTCHISON, LINDA, Secondary Education
HUYNH, XUAN-XABIER, Modern
and Classical Languages
HUZURBAZAR, SNEHALATA V., Statistics
HVIDSTON, DAVID, Professional Studies
IAMS, HELEN, Family Practice
INGWERSON, JENNIFER, Animal Science
INNES, PAMELA J., Anthropology
INOUYE, KEVIN, Theatre and Dance
IPINA, LYNNE, Mathematics
IRICK, ERIN, Family and Consumer Sciences
ISAACS, BRANDON, Family Practice
ISLAM, M. ANOWARUL, Plant Sciences
JABBOUR, RANDA, Plant Sciences
JACOBS, LANDEE, Theatre and Dance
JACKSON, DARRELL D., Law
JACKSON, LAURA UGLEAN,
American Heritage Center
JAFARI, FARHAD, Mathematics
JAIME, ANGELA, Educational Studies
JAMES, BARBARA, Nursing
JANAK, EDWARD, Educational Studies
JANG-CONDELL, HANNAH,
Physics and Astronomy
JANUS, THORSTEN M.,
Economics and Finance
JARMAN, MICHELLE, Wyoming
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JARVIS, DONALD L., Molecular Biology
JENKINS, JAYNE M., Kinesiology and Health
JENKINS, MARK, English
JIN, SONG, Civil and Architectural Engineering
JOHANNES, TAY W., Air Force ROTC
JOHN, BARBARA E., Geology and Geophysics
JOHNSON, ERIC N., Accounting
JOHNSON, EVAN C., Kinesiology and Health
JOHNSON, LINDA E., Nursing
JOHNSON, PATRICK, Chemical and
Petroleum Engineering
JOHNSON, PAUL E., Physics and Astronomy
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JOHNSON, TRICIA GIOVACCO, Elementary/
Early Childhood Education
JONES, DAVID, Art
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JONES, STEPHEN, Management
and Marketing
KALEN, SAM, Law
KAMBUTU, JOHN, Educational Studies
KAMP, MARIANNE R., History
KASZUBA, JOHN P., SER,
Geology and Geophysics
KATHAN, DONNA, Nursing
KATZMANN, JASON, Secondary Education
KAWULOK, MELANIE, Nursing
KEARLEY, TIMOTHY G., Law
KEARNS, CASEY, Theatre and Dance
KEEGAN, DANIEL, English
KELLENNERS, THIJS, Ecosystem
Science and Management
KELLER, MARY, Religious Studies
KELLY, ALEXANDRA, History, Anthropology
KELLY, ROBERT D., Atmospheric Science
KELLY, ROBERT L., Anthropology
KEMPSON, DIANE A., Social Work

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- KNIEVEL, MICHAEL, English
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- KORFANTA, NICOLE, Environment and Natural Resources
- KORNFELD, MARCEL, Anthropology
- KOSKI, CHERYL, Nursing
- KRAFCZIK, JOSEPH, Modern and Classical Languages
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- KRUEGER, JANELLE L., Pharmacy
- KRUEGER, KEM, Pharmacy
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- KUBICHEK, ROBERT F., Electrical and Computer Engineering
- KUZNETSOVA, MARIA I., Psychology
- KVENILD, CASSANDRA, University Libraries
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- LAEGREID, WILLIAM W., Veterinary Sciences
- LAKE, SCOTT, L., Animal Science
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- LARSON-MEYER, D. ENETTE, Family and Consumer Sciences
- LATCHININSKY, ALEXANDRE V., Ecosystem Science and Management
- LAUENROTH, WILLIAM, Botany
- LaVANCHY, JENNIFER, Modern and Classical Languages
- LEBO, ZACHARY J., Atmospheric Science
- LEE, LONG, Mathematics
- LEFEBVRE, LEAH, Communication and Journalism
- LEGG, DAVID E., Ecosystem Science and Management
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- LEGOWSKI, STANISLAW F., Electrical and Computer Engineering
- LEHMANN, TERESA, Chemistry
- LEONARD, BRIAN, Chemistry
- LEONARD, JACQUELINE, Science and Mathematics Teaching Center, Early Childhood Education
- LePARD, ALICIA, Nursing
- LEVY, DANIEL, Molecular Biology
- LEWELLYN, KRISTA B., Management and Marketing
- LI, DONGMEI (KATIE), Chemical and Petroleum Engineering
- LI, LI, Communications and Journalism
- LIEBMAN, MICHAEL, Family and Consumer Sciences
- LINDMIER, WILLIAM, Army ROTC
- LINDSTROM, GRANT L., Management and Marketing
- LINN, BECKY, Pharmacy
- LIPING, WANG, Civil and Architectural Engineering
- LIU, RONGSONG, Mathematics; Zoology and Physiology
- LIU, XIAOHONG, Atmospheric Science
- LOCKE, STEVEN, Elementary/ Early Childhood Education
- LOCKWOOD, JEFFREY A., Philosophy
- LOFFREDA, BETH, American Studies
- LOGAN, BARBARA, History, Gender and Women's Studies
- LOWE, SUE, Nursing
- LUDDEN, PAUL A., Animal Science
- LUND, TERI, Nursing
- LUTZ, PAULA M., Zoology and Physiology, A&S Dean
- LYFORD, MARK, Life Sciences, Botany
- LYNG, GREGORY, Mathematics
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- MADRID, SAMARA, Elementary and Early Childhood Education
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- MAHVAN, TRACY D., Pharmacy
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- MALM, RONALD L., Family Practice
- MANI, KUMARAN, Molecular Biology
- MANN, ALLISON, Pharmacy
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- MARKS, CLIFFORD J., English
- MARTIN, ERICH, Army ROTC
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- MARTINCHICK, GAYLE, Nursing
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- McCARREN, MATTHEW, Theatre and Dance
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- McCORMICK, RICHARD J., Animal Science
- McCRACKEN-FLESHER, CAROLINE, English
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- McELROY, BRANDON, Geology and Geophysics
- McGEE, BLAKE, Music
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- McMANUS, PATRICK, Civil and Architectural Engineering
- McTIGUE, KRISTIN, Family and Consumer Sciences
- MEALOR, BRIAN, Plant Sciences
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- MEANS, WARRIE J., Animal Science
- MEREDITH, SCOTT, Music
- MESENTER, DAVID, History; Global and Area Studies
- MICHALEK, RUDI, Physics and Astronomy
- MIELKE, TAMMY, Elementary and Early Childhood Education
- MILES, NOAH, Modern and Classical Languages
- MILLER, HOLLY, Nursing
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- MILLER, MARCIE, Civil and Architectural Engineering
- MILLER, MICHAEL, Family Practice
- MILLER, MYRNA M., Veterinary Sciences

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- MILLER, STEVEN L., Botany
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- MINEAR, MEREDITH, Psychology
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- MOLDENHAUER, SUSAN, Art Museum
- MOLSKI, AMANDA, Nursing
- MONTEITH, KEVIN, Zoology and Physiology
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- MOULAND, DENNIS, Civil and Architectural Engineering
- MUDDIMAN, ASHLEY, Communication and Journalism
- MUKAI, DAVID J., Civil and Architectural Engineering
- MUKNAHALLIPATNA, SURESH S., Electrical and Computer Engineering
- MUNDT, HANNELORE, Modern and Classical Languages
- MURDOCK, MARGARET M. Political Science
- MURPHY, MELANIE, Ecosystem Science and Management
- MURPHY, MELISSA, Anthropology
- MURPHY, SHANE, Atmospheric Science
- MYERS, ADAM, Physics and Astronomy
- MYERS, JAMES D., Geology and Geophysics
- MYERS, JOHN, Chemical and Petroleum Engineering
- MYRAN, LEENA, Pharmacy
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