

## Professors:

**KLINT ALEXANDER**, B.A. Yale University 1991; Ph.D./M.Phil. Cambridge University 1997; J.D. University of Virginia 1999; Professor of Law 2015.

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

**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.

**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.

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

**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.

## Associate Professors:

**MELISSA ALEXANDER**, B.A. Yale University 1996; J.D. University of Virginia 1999; Associate Professor of Law 2015.

**KENNETH CHESTEK**, B.A. Pennsylvania State University 1975; J.D. University of Pittsburg School of Law 1979; Associate Professor of Law 2015, 2012.

**MARK GLOVER**, B.A. Washington University in St. Louis 2002; J.D. Boston University School of Law 2008; LL.M. Harvard Law School 2011; Associate Professor of Law 2015.

**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; Associate Professor of Law 2015, 2013.

**JASON ROBISON**, B.S. University of Utah 2003; J.D. University of Oregon 2006; LL.M. Harvard Law School 2009; S.J.D. 2013; Associate Professor of Law 2015.

## Assistant Professors:

**EMILY BREMER**, B.A. New York University 2003; J.D. New York University School of Law 2006; Assistant Professor of Law 2015.

**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.

**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.

## Academic Professionals:

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

**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, Diane E. Courselle, Debra L. Donahue, Harvey Gelb, Timothy Kearley, Jerry R. Parkinson, Joel Selig, Elaine A. Welle

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 2.000.

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](http://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](http://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](http://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 15 and April 30. Applications received by December 15 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 15. Students who submit an application by December 15 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 15 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](http://www.uwyo.edu/law).

## Law (LAW)

**6110. Contract I. 3 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 3).**

**6160. Legal Writing I. 2 (Max. 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 (Max. 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 (Max. 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. 2 (Max. 2).** 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 (Max. 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 (Max. 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 (Max. 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 bear-

ing 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. 3 (Max. 3).** 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 3).**

A study of the life of John Marshall, Chief Justice of the United States from 1801 until 1835.

**6540. Antitrust. 3 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 2).** The use of microeconomic theory to assess the economic efficiency and equity consequences of alternate legal structures.

**6755. Legislation. 3 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 examina-

tion of expert witnesses, opening statement, closing argument and voir dire. Jury trials are conducted in the final two weeks.

**6860. Water Law and Policy. 3 (Max. 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 ground-water 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 (Max. 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 writing 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 (Max. 3).** Covers fact investigation and the role of the lawyer in a transaction proposed by the client, including possible negotiations with other parties; draft-

ing 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 (Max. 4).** 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 (Max. 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 (Max. 6).** 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 (Max. 6).** 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 (Max. 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 (Max. 3).**

# Armed Forces Services

LTC Thomas W. Haas, Commander, Army ROTC  
LtCol. Samuel R. Shearer, 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, (307) 766-3390  
FAX: (307) 766-3383  
Web site: [www.uwyo.edu/armyrotc](http://www.uwyo.edu/armyrotc)

### Professor:

**THOMAS W. HAAS**, Lieutenant Colonel, U.S. Army, Logistics; B.A. University of Wyoming 1998; M.A. Missouri Webster University 2012; Professor of Military Science 2016.

### Lecturer:

**PHILLIP CANTRELL**, Master Sergeant, U.S. Army; Senior Military Instructor 2018.

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
<b>Total credit hours</b>		<b>27</b>

### 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
<b>Total credit hours</b>		<b>27</b>

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 six 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**

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

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

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

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

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

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

<b>SENIOR YEAR: Fall</b>		<b>Hrs.</b>
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
<b>SENIOR YEAR: Spring</b>		<b>Hrs.</b>
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, (307) 766-2338

FAX: (307) 766-2357

Web site: [www.uwyo.edu/airrotc](http://www.uwyo.edu/airrotc)

### Professor:

**SAMUEL R. SHEARER**, Lt. Colonel, U.S. Air Force; B.S. University of Utah 1996; M.S. Troy State University 2003; M.A. Naval Postgraduate School 2004; Ph.D. 2013; Professor of Aerospace Studies 2016.

### Assistant Professors:

**GEORGE T. NOAH**, Captain, U.S. Air Force; B.S. Purdue University 2009; Assistant Professor of Aerospace Studies 2016.

**JEFFERSON R. THORPE**, Captain, U.S. Air Force; B.S. Trident University International 2009; M.B.A. 2013; Assistant Professor of Aerospace Studies 2017.

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 2<sup>nd</sup> 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 \$300 and \$350, per month, respectively. Juniors enrolled in the Professional Officers Course receive \$450 per month and seniors \$500 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](mailto: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/](http://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, Associate of Business 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 an 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 42 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 [BAS@uwyo.edu](mailto:BAS@uwyo.edu) when you have received your acceptance to UW. Include your W# in the message. We can then track your files to evaluate them for the BAS program.
4. 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](mailto:rgrenfel@uwyo.edu)), to enroll in classes.

## 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. Once a student has applied and their transcripts have been received, Kerry Casper ([kcasper2@uwyo.edu](mailto:kcasper2@uwyo.edu)) should be notified. 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 42 upper-division credit hours (3000+).

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

**I. Major Requirements**

<b>JUNIOR YEAR: Fall</b>		<b>Hrs.</b>
AGRI 3000 .....		3
FCSC 3110 or ENR 4500 .....		3
Upper division elective .....		3
*one course from Option A or Option B .....		3
Elective or remaining USP course .....		3
<b>Total</b>		<b>15</b>

<b>JUNIOR YEAR: Spring</b>		<b>Hrs.</b>
*one course from Option A or Option B .....		3
Contemporary Society course .....		3
AGRI 4350 .....		3
COJO 3010 or COJO 3190 .....		3
Elective or remaining USP course .....		3
<b>Total</b>		<b>15</b>

<b>SENIOR YEAR: Fall</b>		<b>Hrs.</b>
AGRI 4600 .....		3
*one course from Option A or Option B .....		3
Elective or remaining USP course .....		3
Approved Career Elective .....		3
Upper division elective .....		3
<b>Total</b>		<b>15</b>

<b>SENIOR YEAR: Spring</b>		<b>Hrs.</b>
*one course from Option A or Option B .....		3
Elective .....		3
AGRI 4960 or 6 credits of approved career electives .....		6
Contemporary Society course .....		3
<b>Total Hrs.</b>		<b>15</b>
<b>Total Credit Hours</b>		<b>60</b>

**II. University Studies Program**

<b>Core Components</b>		<b>Hrs.</b>
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

<b>Embeddable Components</b>		<b>Hrs.</b>
Communication 2 and 3 (COM2 and COM3) .....		6
<b>Total USP Hrs.</b>		<b>30</b>
<b>Total hours for degree:</b>		<b>120</b>

## Degrees Offered

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

**Bachelor of Science in Environmental Systems Science** (for baccalaureate students)

**Bachelor of Science in Environment & Natural Resources** (for baccalaureate students, required second major)

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

**Bachelor of Science in Outdoor Recreation and Tourism Management** (for baccalaureate students)

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

**Sustainability minor** (for baccalaureate students)

**Outdoor Leadership minor** (for baccalaureate students)

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

## Program Admission

Undergraduate 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.

Graduate students interested in the concurrent major or minor in ENR will apply for admission to a primary degree program at the University of Wyoming. Once accepted to their primary graduate program, students must complete an additional online process to confirm their enrollment in the ENR major or minor. During the Haub School admission process, students will select a Haub School faculty mentor and submit a one-page statement of purpose. Current application requirements available online.

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.

More information, including complete curricula for each academic offering, is available from the Haub School.

## Haub School Requirements (for undergraduate students earning their primary degree from the Haub School)

Undergraduate students earning a B.S. in Environmental Systems Science and/or a B.S. in Environment and Natural Resources (plus a concurrent major in another field) must fulfill two courses (totaling 6 credit hours) of Haub School Requirements. An undergraduate degree from the Haub School of Environment & Natural Resources indicates that students are liberally educated, with the foundational skills and knowledge to approach local and global contexts from multiple perspectives. The approved courses for the following requirements are searchable within WyoRecords under the Browse Classes feature.

1. U.S. Diversity (ASD). This requirement allows students to explore the complexity of cultural identities in the U.S. and interdependence of the cultures. Students will gain an understanding of the influences of categories such as race, class, ethnicity, gender, disability, sexual orientation, religion, and age on American behaviors, institutions, values, and beliefs.
2. Global Awareness (ASG). Because citizens ever more frequently encounter behaviors and practices based on beliefs, conditions, and assumptions different from their own, they need to understand the nature and function of culture. Our students should have an awareness of the multiple links that affect the living conditions and range of action of peoples of the world, including international systems of commerce, art, science, sustainability, technology, politics, communication, belief, and justice, among others.

## Bachelor of Science in Environmental Systems Science

Environmental Systems Science (ESS) is an interdisciplinary undergraduate degree in environmental science, focusing on the interactions between the various components of Earth and environmental systems, including the biosphere, lithosphere, atmosphere, and anthrosphere.

Students earning a B.S. in environmental systems science will

1. demonstrate a knowledge of interdisciplinary perspective and integrative thinking,
  - a. understand physical and biological components of environmental systems, including the human component;
2. design, conduct, and interpret scientific investigations,
  - a. understand the ethics of scientific investigation,
  - b. demonstrate proficiency in data collection, statistical analysis, and use of information technology tools and modeling;
3. apply systems concepts to problems concerning environmental systems and their components, and construct conceptual and quantitative systems models;
4. examine spatial, temporal, and spatial-temporal patterns in environmental systems, and use information technology tools to depict, project, and communicate such patterns.

Students earning a B.S. degree in ESS complete coursework including:

- 23 credit hours of Foundations courses
- 18 credit hours of Spheres courses
- 12 credit hours of Skills & Tools
- 6 credit hours of Haub School Requirements courses\*
- ≥ 18 credit hours in an approved minor as an area of focus

\*may be integrated as part of major or minor requirements

## Bachelor of Science in Environment & Natural Resources or Undergraduate Major in ENR

The primary goal of ENR studies is to gain depth and breadth of understanding in interdisciplinary studies that address complex ENR issues and to integrate that understanding with the student's other fields of study.

Students can choose to pursue:

- a concurrent major in ENR, earned alongside an approved baccalaureate degree in any other discipline, or
- B.S. in ENR, earned alongside an additional major in any other discipline.

The ENR 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 – Students will understand the temporal and spatial characteristics of ENR challenges.
3. Policy – Students will recognize the content and implications of past and current ENR policies.
4. Cultures & Values – Students will 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 – Students will understand that ENR problems inherently involve complexity, risk, and uncertainty.
6. Professional & Academic Skills – Students will 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.

All undergraduate students in ENR complete their coursework in conjunction with another major in any discipline. Students must complete 35+ hours of coursework in ENR, including:

- 15 credit hours of ENR core courses (ENR 1200 or 1500, 2000, 3000, 4900, and 4970)
- 20+ credit hours of ENR disciplines courses, with at least one course from each of the seven categories (Cultures & Values; Economics; Environmental Management; Physical & Natural Sciences; Policy; Scientific Uncertainty; and Electives)
- an approved major in any discipline

*Note:* students earning a B.S. in ENR with their degree awarded from the Haub School must additionally complete 6 credit hours of Haub School Requirements (U.S. Diversity and Global Awareness).

### **Bachelor of Science in Outdoor Recreation and Tourism Management**

A BS in Outdoor Recreation and Tourism Management (ORTM) emphasizes stewardship and conservation of natural resources, tourism and outdoor recreation theories and best practices, entrepreneurial and business management strategies, creating outstanding visitor experiences, and broad understanding of cultural and natural resources. Students choose one of five different concentrations.

Students earning a degree in ORTM will be expected to demonstrate learning in six key areas:

1. Leadership
  - a. competency in leading and building diverse, collaborative teams;
  - b. application and evaluation of ethical, resourceful leadership principles to challenges and solutions within the ORTM industry.
2. Professional practice
  - a. ability to apply and critically evaluate practical, creative, ethical, and theoretical frameworks in diverse and complex professional circumstances.
3. Communication
  - a. ability to manage dynamic relationships and demonstrate best practices in communication.
4. Nimble and creative thinking
  - a. ability to strategically design, implement, and evaluate sustainable and emergent services, experiences, and opportunities.
5. Trans-disciplinarity
  - a. synthesis and application of ecological and human communities, with the capacity to provide wise stewardship and conservation of natural resources;
  - b. tourism and outdoor recreation theories and best practices;
  - c. entrepreneurial and business management strategies.
6. Place-based and global understanding
  - a. skills to implement solutions appropriate for local environments that demonstrate fluency in global contexts and diverse cultures.

To fulfill the requirements, students must complete the following, earning 75+ credit hours in specified categories:

- 16 credit hours of Foundations courses
- 28 credit hours in Core topics

- 12 credits in Synthesis and Applied Experience including the Professional Semester and a 4000-hour internship
- 19-22 credit-hour Concentration. Concentrations include: Business and Hospitality Management, Management of Recreation Resources, Cultural and International Tourism, Outdoor Recreation Leadership or Creative Studies in Recreation and Tourism (self-designed program of study approved in advance with the degree coordinator)
- 6 credit hours in Haub School Requirement courses\*

\*May be integrated as part of major and minor requirements.

### **Undergraduate Minor in ENR**

An ENR minor may accompany any primary field of study. The ENR core, plus one elective course, fulfills the 18 credit hour requirement for the minor: ENR 1200 or 1500, 2000, 3000, 4900, 4970, and one elective.

### **Undergraduate Minor in Sustainability**

The sustainability minor is available to any undergraduate student at the University of Wyoming. The minor prioritizes systems thinking, civic engagement, and personal development rooted in sustainability for everyday challenges.

Students completing any track of the sustainability minor will be expected to:

1. demonstrate a theoretical and historical understanding of sustainability;
2. develop a model of sustainability informed by personal values and integrated into student's worldview;
3. think holistically about consequences of actions and intellectually respond to perspectives of sustainability outside their own, as well as explore and evaluate the implications of sustainability values;
4. develop and implement sustainability solutions in their community and have the ability to apply sustainability principles to a range of disciplines and professional settings.

To fulfill the requirements for the minor, students must earn 18 credits in specified categories:

- 9 credit hours of core courses (ENR 1300, an ethics course, and ENR 4600)



- 9-10 credit hours of elective courses, chosen to fulfill a track: General Sustainability, Food Systems, or Sustainable Energy

### Undergraduate Minor in Outdoor Leadership

The outdoor leadership minor is available to any undergraduate student at the University of Wyoming. Students earning the minor will study leadership, ethics, field ecology, outdoor recreation, and wilderness medicine.

Students earning a minor in outdoor leadership will:

1. develop an understanding of leadership theories, including leadership movements, qualities, styles, and models;
2. identify and evaluate the cultural and environmental dimensions of outdoor leadership, including moral and ethical responsibilities, the fundamentals of ecological systems, and the human impact on the natural world;
3. demonstrate and apply outdoor leadership competency in a practical leadership role;
4. plan, implement, supervise, and analyze a high-quality, safe outdoor adventure and/or educational program;
5. earn and maintain a professional certification of Wilderness First Responder.

To fulfill the requirements, students must complete the following, earning 18 credits in specified categories:

- 6-7 credit hours of Foundations courses (ENR 2800 and an introductory environmental science course)
- 9 credit hours of Concepts courses ( $\geq 2$  credits each from Field Ecology, Leadership, and Ethics)
- 3 credit hours of Applied Field Experience (Wyoming Conservation Corps, NOLS, or Internship)
- Current Wilderness First Responder with CPR Certification

### Graduate Major in ENR

The ENR major is completed in tandem with any UW graduate 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. During the Haub School

admission process, students will select a Haub School faculty mentor and submit a one-page statement of purpose. Before receiving their degree, students must submit 1) a cumulative learning analysis and 2) a signed addendum to the Program of Study, listing approved ENR courses.

### 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/Master of Arts 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. Plan B Writing Seminar – Typically completed in the first semester of the third year, students will earn 1 credit hour (ENR 5890 Topics: Plan B Writing) for satisfactory participation and enrollment in the seminar course.

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. Students will earn 2 credits as they conduct their Plan B research.

## 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◆PN]

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.

**2030. History and Environmental Science. 3. [(none)◆H]** This course is designed as an introduction to both the historical work of environmental historians and the scientific work of environmental scientists. No previous background in either history or science is required. Cross listed with HIST 2030. *Prerequisite:* COM1 course with a grade of C or better.

**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. 3.** 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. [(none)◆COM2]** 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. *Prerequisite:* 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, POLS 2460, or POLS 3600, or permission of instructor.

**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 AGEC

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.** 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.

**4240. Disease Ecology. 3.** Introduction to 1) how interactions among species, ecosystems, human systems, and abiotic components of the environment affect patterns and processes of disease, and 2) considerations for coevolution of hosts and pathogens, conservation biology, models used to understand disease dynamics, and approaches to manage and control disease in animals, plants, and humans. Dual listed with ENR 5240. Cross listed with PATB 4240. *Prerequisites:* LIFE 2022 or 2023 and STAT 2050 or 2070.

**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)

**4412. Global Environment History. 3. [(none)↔H]** This course is designed to introduce undergraduate and graduate students to the new field of global environmental history. The Global Environment History course will provide a new way of looking at humans, animals, and the lives they’ve built in the environment and the costs of their decisions to the environment. Cross listed with HIST 4412. *Prerequisite:* WA or COM1 course with grade of C or better.

**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.

**4430. Green Chemistry and Global Environmental Problems. 3.** Focus includes study of the chemistry of air, water, and soil as well as the effects of anthropogenic activities on natural processes. Emphasis is also placed on sustainability and green chemistry practices and technologies. Cross listed with CE/CHE 4430. *Prerequisite:* CHEM 1020.

**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. 4. [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. Laboratory. Dual listed with ENR 5500. *Prerequisites:* MATH 1000 or 1400, introductory statistics and familiarity with Excel spreadsheets.

**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♦COM3]** 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.

**4960. Field Studies in: 1-6.** Field-based courses in Environment and Natural Resources are taught under this number. The specific subject matter varies depending upon the location and content of each courses. Students frequently need to apply in advance. *Prerequisite:* 6 credits of ENR coursework.

**4970. ENR Internship. 1-6 (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 *Prerequisite:* ENR 3000.

**4975. Independent Study. 1-6 (Max. 6).** Offers students the opportunity to independently complete special academic studies under direction of a faculty member. Readings, papers, and projects are completed as directed. Dual listed with ENR 5975. *Prerequisite:* 6 credits in ENR.

**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.

**5240. Disease Ecology. 3.** Introduction to 1) how interactions among species, ecosystems, human systems, and abiotic components of the environment affect patterns and processes of disease, and 2) considerations for coevolution of hosts and pathogens, conservation biology, models used to understand disease dynamics, and approaches to manage and control disease in animals, plants, and humans. Dual listed with ENR 4240. Cross listed with PATB 5240.

**5270. Writing and Reviewing Science. 4.** This course will help students prepare a scientific manuscript for submission to a peer-reviewed journal; in so doing, students will become more effective, efficient, and confident writers. Students will learn principles of effective writing, how to prepare a manuscript for publication, navigate the peer-review process, and write a constructive review. Cross listed with ZOO 5270. *Prerequisite:* Students must have graduate standing and an analyzed dataset on which the manuscript will be based. Students must have approval from their advisors and key collaborators before embarking on this journey. Students are also encouraged to maintain this approval throughout the semester.

**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 AGEC 5450. Dual listed with ENR 4450. *Prerequisite:* completion of USP O requirement; junior standing.

**5500. Risk Analysis. 4.** 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. Laboratory. Dual listed with ENR 4500. *Prerequisites:* MATH 1000 or 1400, introductory statistics and familiarity with Excel spreadsheets.

**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 AGEC 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. Collaboration 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.

**5975. Independent Study. 1-6 (Max. 6).** Offers students the opportunity to independently complete special academic studies under direction of a faculty member. Readings, papers, and projects are completed as directed. Dual listed with ENR 4975. *Prerequisite:* 6 credits in ENR.

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## Environmental Systems 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. 3. [I,L◀▶(none)]** Introduces the study of environmental systems science by investigating Earth's atmosphere, atmosphere, biosphere, and lithosphere. Studying Wyoming's unique environments and current issues, students will access, analyze, and interpret data to understand how natural and human-caused changes influence larger Earth and environmental systems.

**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 PN course and USP COM1. **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].

**4780. Biogeochemistry. 3.** A comprehensive treatment of biogeochemistry with emphasis on biogenic elements and biological processes. Reviews occurrence of elements, their behavior in the biosphere, and how their cycles are affected by humans. Dual listed with ESS 5780. Cross listed with BOT 4780. *Prerequisite:* Consent of instructor.

**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.

**5780. Biogeochemistry. 3.** A comprehensive treatment of biogeochemistry with emphasis on biogenic elements and biological processes. Reviews occurrence of elements, their behavior in the biosphere, and how their cycles are affected by humans. Dual listed with ESS 4780. Cross listed with BOT 5780. *Prerequisite:* Consent of instructor.

## Outdoor Recreation and Tourism Management (ORTM)

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

**1000. Foundations of Recreation and Tourism. 3.** Introduces the conceptual foundations, array of services, and management with recreation and tourism. Primary focal points for this course include historical and psychological underpinnings, market trends, types of resources and services, cultural, economic, political, and legal considerations, and career opportunities. Emphasizes the relationship to resource stewardship.

**1050. Natural and Cultural Resources of the West. 3.** The American West is an attraction for visitors, largely due to its unique sense of place, blend of people and culture, history and natural resources. Within the context of outdoor recreation and cultural/historical tourist attractions, students will examine diverse natural and cultural resources.

\*Additional ORTM courses will be added in next year's catalog.

# 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 for Information Literacy 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.

Information literacy learning outcomes are included in University Studies First Year Seminar (FYS) and communication courses.

The Libraries also offer credit courses to help students improve research skills and to meet the communications 2 requirement of the University Studies Program.

## 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.

## Librarian

**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; Librarian 2016, 1998.

## 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.

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

## Assistant Librarian

**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. [QB♦Q]).**

**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. Research as Social Capital. 3. [L♦COM2]** Prepares students to be critical thinkers and interdisciplinary researchers. Skills and habits of mind taught will enable students to locate, interact with, and present information in a service-learning framework and around the class theme of social capital, preparing them for university-level research and life after graduation. *Prerequisite:* Successful completion of a COM1 course or equivalent.

**5600. Research Data Management. 3.** A general approach to research data management for graduate students and researchers. Topics include: the case for data management, data management planning, meeting grant requirements, formatting and organizing, storing and transferring, legal and ethical issues, strategies for research teams, sharing data, and publishing, citing, and rights to research data. Cross listed with CHE/ES/GRAD/PETE 5600. *Prerequisite:* graduate standing.

# Intercollegiate Athletics

Fieldhouse North

Thomas K. Burman, Director

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

Web site: [wyomingathletics.com](http://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.

**MATTHEW ERIC BOYER**, O.D., B.S. Missouri Southern State College 1994; O.D. Oklahoma State University College of Osteopathic Medicine 1998; Sports Medicine Fellowship via College of Osteopathic Medicine Virginia Polytechnic Institute and State University 2010; Team Physician 2015.

**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; Associate 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.

**DAVE DENNISTON**, B.A. Auburn University 2002; Head Swimming and Diving Coach 2017.

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

**ALLEN EDWARDS**, B.A. University of Kentucky 1998; Head Men's Basketball Coach 2016.

**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.

**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.

**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.Ed. Northern Arizona University 2004; Director of Sports Medicine 2013.

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

**PETER PRIGGE**, B.A. Marquette University 2009; J.D. 2012; Assistant Athletic Director for Compliance 2012.

**DAVID PRIMUS**, B.S. University of Wyoming 2007; M.B.A. University of Notre Dame 2011; Assistant Athletic Director for Marketing and Branding 2015.

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

**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; Associate Athletic Director for Ticketing and Sales 2017.

**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; Senior 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](http://www.gowoyogo.com)

# National Outdoor Leadership School

Administered by the Haub School of Environment and Natural Resources

203 Bim Kendall House

Dan McCoy, Degree Coordinator  
Natural Resource Recreation and Tourism

Phone: (307)766-5009 FAX: (307)766-5099; Web site: [www.uwyo.edu/haub](http://www.uwyo.edu/haub)

The University of Wyoming (UW) and National Outdoor Leadership School (NOLS) Articulation Agreement provides the opportunity for 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 courses. This agreement also covers some individual short-term courses (14 days or less; including mountaineering, rock climbing, sailing, kayaking, skiing, snowboarding, and backpacking) and the Wilderness First Responder (WFR) course.

## Application/Eligibility

Current UW students, or students who have been fully or conditionally admitted to UW may receive articulated NOLS credit. Students who have already taken a NOLS course cannot receive credit retroactively (i.e. if a student embarked on a NOLS course and requested to get credit after the course was completed).

## Credit and Credit Transfer

UW credit hours will be awarded in the approved courses, which require prior approval. Upon completion of the NOLS courses, provided a grade equivalent to a UW grade of C or better was obtained at NOLS. These UW course grades will be included in your UW GPA. Students who withdraw or are expelled from a NOLS course may receive an incomplete or an F for all enrolled UW credit.

Students should be aware that for internship credits to be awarded, additional academic work requirements determined by the intern-

ship course 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. Internship requirements are established prior to your participating in the NOLS course.

## Academic Advising

Prior to participating in a NOLS course for UW credit, students must make an appointment with the Haub School by emailing [haub.school@uwyo.edu](mailto:haub.school@uwyo.edu) or calling (307) 766-5080. If your academic program is outside of the Haub School, students should also meet with their assigned academic advisor to determine if these courses will count towards their major. The Haub School will approve the student's schedule, provide the appropriate course numbers, and liaise with the NOLS Registrar.

## 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 UW:

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

## Financial Aid

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. To do so, please work with the UW Scholarships and Student Financial Aid Office, Christy Nordmann, Financial Aid Specialist, (307) 766-3674.

## Rules, Law, and Regulations

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).

## Steps to Follow

1. Determine the NOLS course that best fits your needs/interests and/or goals online at: [www.nols.edu/courses](http://www.nols.edu/courses)
2. Make an appointment with an advisor from the Haub School to determine the UW academic credit that best suits your degree program by e-mailing [haub.school@uwyo.edu](mailto:haub.school@uwyo.edu) or by calling (307) 766-5080.
3. Meet with your academic advisor (if your academic program is not in the Haub School).
4. Apply and be admitted into NOLS.
5. Prior to leaving for your NOLS course, enroll in the credit offered for the course.
6. Secure your financial aid (if any) with the UW Student Financial Aid Office, Christy Nordmann, Financial Aid Specialist, (307) 766-3674.
7. Attend and successfully complete the course (grade C or better).
8. Grades will be posted the semester of completion of your course.

## UW Credit Options

UW recognizes the following credit options for taking a NOLS course:

	Hrs.
Short Courses (<14 days).....	2
**KIN 4074 (2 credits)	
Quarter length courses (14-65 days) .....	≤9
**ENR 2800 (3 credits)	
**KIN 4074 (3 credits)	
**ENR 4890 (3 credits)	
**ENR 4970 (3 credits)	

Semester & year-long  
courses\* (>65 days) .....12-24  
\*\*ENR 2800 (3 credits)  
\*\*KIN 4074 (6 credits)  
\*\*ENR 4970 (3-6 credits)  
\*\*ENR 4890 (3 credits)  
\*\*\*HLED 1221 (2 credits)  
\*For year-long courses, independent study  
credits are also available.  
\*\*In order to receive credit from these courses,  
evidence of topics covered must accompany  
the specific NOLS course. For example, to  
receive credit for ENR 4890, it is necessary  
that the specific NOLS course will cover that  
topic to receive credit. Course description may  
be found in this catalog.  
\*\*\*For courses with a Wilderness First Re-  
sponder component only.

# School of Energy Resources

338 Energy Innovation Center

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

Mark A. Northam, Director

Web site: [www.uwyo.edu/ser](http://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.

**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 Professor of Chemical Engineering 2015, 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.

**MOHAMMAD PIRI**, B.Sc. Azad University, Arak 1995; M.Sc. Azad University, Tehran 1998; M.Sc. Imperial College, London 2000; Ph.D. 2004; SER Professor of Petroleum Engineering 2011, 2005.

## 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.

**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.

**TARA RIGHETTI**, B.A. University of Colorado Boulder 2005; J.D. 2007; SER Associate Professor of Law 2017, 2014.

## Assistant Professor:

**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.

## Academic Professional

**KRISTOPHER KOSKI**, B.S. Colorado School of Mines, 2005; J.D. University of Wyoming, 2008; Associate Lecturer 2017.

## 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. 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 3.000). 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 2.000 or better.

## Concentrations

The Energy Resource Management and Development program offers two 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.

## Energy Air, Land and Water Management Concentration

### Suggested Course Sequence

Freshman Year: Fall	Hours
First-Year Seminar (FYS).....	3
ECON 1300 (H).....	3
ENGL 1010 (COM1).....	3
ENR/ERS 1000.....	3
MATH 2200 (Q).....	4
<b>Total Hours</b>	<b>16</b>

Freshman Year: Spring	Hours
ACCT 1010.....	3
ECON 1020 (H).....	3
U.S. & WY Constitutions (V).....	3
ERS 2500 (COM2).....	3
LIFE 1010 (PN).....	4
<b>Total Hours</b>	<b>16</b>

Sophomore Year: Fall	Hours
LIFE 2023.....	4
REWM 2000.....	3
Chemistry elective (PN) <sup>1</sup> .....	4
MGT 3210.....	3
ES 1060.....	3
<b>Total Hours</b>	<b>17</b>

Sophomore Year: Spring	Hours
SOIL 2010.....	4
LIFE 3400.....	3
GEOG 2150.....	4
STAT 2050/2070.....	4
<b>Total Hours</b>	<b>15</b>

Junior Year: Fall	Hours
REWM 2400.....	4
REWM 3100.....	3
SOIL 3130.....	3
ERS 4120.....	3
ENR 4750.....	3
<b>Total Hours</b>	<b>16</b>

<b>Junior Year: Spring</b>	<b>Hours</b>
Economics elective <sup>2</sup> .....	3
REWM 4710.....	3
FIN 3250.....	3
ERS 3010.....	3
General elective <sup>3</sup> .....	4
<b>Total Hours</b>	<b>14</b>

<b>Senior Year: Fall</b>	<b>Hours</b>
AGEC/ENR 4550.....	3
REWM 4200.....	3
Data Analysis Elective <sup>4</sup> .....	4
GEOG 4200.....	4
<b>Total Hours</b>	<b>14</b>

<b>Senior Year: Spring</b>	<b>Hours</b>
COM3 Elective <sup>5</sup> .....	3
AGEC/ENR 4450.....	3
DSCI 4260.....	3
REWM 4580.....	3
<b>Total Hours</b>	<b>12</b>
<b>Total Credit Hours</b>	<b>120</b>

NOTE: Academic plans and course schedules may need to be altered if your Math Placement scores require you to take MATH 0900, 0921, 0925, 1400, 1405, or 1450.

<sup>1</sup>CHEM 1000 Fall only, CHEM 1020 Fall, Spring or Summer

<sup>2</sup>ECON/ERS 3400 (preferred); AGEC 3750, 4600, 4660, 4720; ECON 4420

<sup>3</sup>ENR 3700, 4600, 4890, 4970; ERS 4960, 4965, 4970, 4975, 4985, 4990; GEOG 3150, 3450, 3480, 4040, 4111, 4210, 4211, 4330; LIFE 3410; MGT 3410, 3420; PLNT 1150; REWM 4210, 4285, 4330, 4530, 4700, 4850; SOIL 4105, 4120, 4130, 4140, 4150, 4160

<sup>4</sup>ENR 4500; GEOL/ENR 4525

<sup>5</sup>ENR concurrent majors take ENR 4900; all other students select from ENGL 4010, 4025, 4075

**Professional Land (Landman) Management Concentration Suggested Course Sequence**

<b>Freshman Year: Fall</b>	<b>Hours</b>
First-Year Seminar (FYS).....	3
ECON 1300 (H).....	3
ENR 1000 (PN).....	3
MATH 2200 or 2350 (Q).....	4
ENGL 1010 (COM1).....	3
<b>Total Hours</b>	<b>16</b>

<b>Freshman Year: Spring</b>	<b>Hours</b>
ECON 1020 (H).....	3
U.S. & WY Constitutions (V).....	3
ACCT 1010.....	3
ERS 2500 (COM2).....	3
MATH 2205 or 2355.....	4
<b>Total Hours</b>	<b>16</b>

<b>Sophomore Year: Fall</b>	<b>Hours</b>
ACCT 1020.....	3
GEOL 1100 (PN).....	4
ERS 2000.....	3
MGT 1040.....	3
ERS 2010.....	2
<b>Total Hours</b>	<b>15</b>

<b>Sophomore Year: Spring</b>	<b>Hours</b>
MKT 3210.....	3
IMGT 2400.....	3
GEOG 2150.....	4
STAT 2050/2070.....	4
<b>Total Hours</b>	<b>14</b>

<b>Sophomore Year: Summer</b>	<b>Hours</b>
ERS 4960.....	1
<b>Total Hours</b>	<b>1</b>

<b>Junior Year: Fall</b>	<b>Hours</b>
MKT 3210.....	3
FIN 3250.....	3
ENR 4750.....	3
GEOG 4200.....	4
DSCI 3210.....	3
<b>Total Hours</b>	<b>16</b>

<b>Junior Year: Spring</b>	<b>Hours</b>
ERS 4010.....	3
DSCI 4260.....	3
Economics Elective <sup>1</sup> .....	3
ENR 4500.....	4
ERS 4110.....	3
<b>Total Hours</b>	<b>16</b>

<b>Senior Year: Fall</b>	<b>Hours</b>
ERS 4100.....	3
ERS 4120.....	3
ERS 4130.....	3
AGEC/ENR 4550.....	3
<b>Total Hours</b>	<b>12</b>

<b>Senior Year: Spring</b>	<b>Hours</b>
ERS 4105.....	3
ERS 4135 (COM3).....	3
ERS 4985.....	2
AGEC/ENR 4450.....	3
Elective <sup>2</sup> .....	3
<b>Total Hours</b>	<b>14</b>
<b>Total Credit Hours</b>	<b>120</b>

NOTE: Academic plans and course schedules may need to be altered if your Math Placement scores require you to take MATH 0900, 0921, 0925, 1400, 1405, or 1450.

<sup>1</sup>ECON/ERS 3400 (preferred); AGEC 3750, 4600, 4660, 4720; ECON 4420

<sup>2</sup>ERS 4960, 4965, 4970, 4975, 4990; DSCI 4230, 4250; ENR 3700; FIN 3310; GEOG 3150, 4111, 4210, 4235, 4330, 4730, 4750; GEOL 3600, 3650; IMGT 3400; LS 2100; MGT 3410, 3420, 4340, 4350, 4360, 4445; POLS 4051, 4052

**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](http://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**

- Foreign Language
- Geography
- Geographic Information Sciences
- Planning
- International Studies
- Professional Writing
- Public Relations

**College of Business**

- Accounting
- Banking and Financial Services
- Business
- Decision Science
- Economics
- Entrepreneurship
- Finance
- Information Management
- International Business
- Management
- Marketing
- Marketing Communication
- Sustainable Business Practices

**Haub School**

- Environment and Natural Resources
- Outdoor Leadership
- 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♦PN]** 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♦H]** 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.  
**2000. Ethics & Leadership. 3.** This course provides an examination of the principles and practice of (1) personal, group and organizational leadership; and (2) ethics and morals as they relate to conduct in the leadership context. *Prerequisite:* USP WA/COM1.

**2010. Introduction to Land Management. 2.** Provides an introduction to land management in the petroleum industry. Covers the knowledge and skills needed by land professionals including survey systems, land descriptions, mineral ownership, title examination, leases, surface use agreements, and contracts frequently used in the industry. *Prerequisites:* WA/COM1 and QA/Q.

**2500. Communication Across Topics in Energy. 3. [(none)♦COM2]** Students will develop interdisciplinary communication skills from an Energy Resources perspective. Communication will include oral, digital, and written forms. Audiences for communication projects will often be live, and from a variety of backgrounds. *Prerequisites:* 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.

**3400. Energy Markets & Policy. 3.** This course provides an economic analysis of recent developments in energy markets and policies. Cross listed with ECON 3400. *Prerequisite:* Introductory Economics or ECON/ERS 1300 are required.

**4010. Petroleum Exploration and Production. 3.** The purpose of this course is to provide students with information and skills necessary to understand the oil and gas modeling process from exploration to production. Topics will include geophysical exploration, seismic acquisition, geophysical modeling, reservoir characterization, reservoir production, well planning and decision making. Cross listed with GEOL 4010. *Prerequisites:* GEOL 1100; MATH 2200 or MATH 2350.

**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)

**4100. Property I. 3.** Property I addresses the nature of property ownership and the rights associated with property as well as the acquisition and transfer of ownership rights in property and the sharing of ownership rights over time, including estates, future interest, and concurrent estates. *Prerequisites:* ERS 2500 or WB/COM2.

**4105. Property II. 3.** Property II covers rights inherent to the ownership of property and public limitations on those rights. *Prerequisite:* ERS 4100.

**4110. Law of Contracts. 3.** The Law of Contracts addresses the formation of a contract and the meaning of agreements and the justification of non-performance and breach. *Prerequisites:* MGT 1040 and WB/COM2.

**4120. Federal Public Land Law. 3.** Federal Public Land Law addresses public interest as the central principal of public land natural resource management. The course examines the acquisition and disposition of the public domain, federal and state regulatory authority, and the management of hard rock, energy, and rage resources. *Prerequisite:* ENR 4750.

**4130. Oil and Gas Law. 3.** Focuses on the basis legal rules and principles governing the ownership and development of oil and gas, derived from a combination of property, contract, administrative, tort, and constitutional law. *Prerequisites:* ERS 2010 and WB/COM2.

**4135. Advanced Oil and Gas Law. 3. [none]♦COM3]** Covers oil and gas financing arrangements including farmout, JOA, and production sharing agreements, conservation and oil/gas commission practice, drilling/service agreements, downstream marketing and purchase agreements, purchase/sale of petroleum properties, and oil/gas development on federal/indian lands. Includes basic introduction to taxation of mineral interests including depreciation, intangible drilling costs, and depletion. *Prerequisite:* ERS 4130.

**4900. Energy Resource Management Capstone. 3. [WC♦COM3]** 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:* AGEC 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. 1 (Max. 2).** Various facets of energy resource management and development are covered by visits to oil and gas wells, coal mines, power plants, wind farms, and other energy production and research sites. A trip is normally planned for 5 to 6 days. *Prerequisites:* WB; ERS/ENR 1000 or ECON/ERS 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 Honors College 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 a lifetime of stimulating and enriching pursuits. Honors students learn to write cogently for a variety of audiences in their academic disciplines and beyond. 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, sciences and social sciences. The 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. The senior project is frequently used as evidence of critical thinking in graduate and career applications.

## Admission

Students are invited to join the program prior to their freshman year. Freshman applicants meet at least one of the following criteria: a composite ACT score of 27, OR a combined verbal and quantitative SAT score of 1280, OR a high school GPA of 3.70.

The program also welcomes transfer students and current UW students up to the beginning of the junior year. To join, these students need an overall college GPA of 3.250.

Interested high school seniors and transfer students are encouraged to come by the Honors College or to write to the Dean, The Honors College, Dept. 3413, 1000 University Ave, Laramie, WY 82071. The email address is [honors@uwyo.edu](mailto:honors@uwyo.edu).

## Scholarships

The Honors College has a few scholarships primarily for incoming freshmen and consideration of financial need and academic merit are taken into account in their allocation. In keeping with the vision of Honors to facilitate an international experience, Honors will provide a scholarship to assist with short-term and especially semester-duration study abroad. To be scholarship eligible, students must have a minimum cumulative 3.250 GPA.

## Program Requirements

The Honors curriculum immerses students in multi-disciplinary inquiry. We begin with the first-year Colloquium, a course that takes a complex topic – for example, dreams and reality – and explores it with readings based in the humanities, sciences, and social sciences. We enrich the course with visits to the theatre, the Art Museum, and other UW resources, building community while learning about UW. Thereafter, students enroll in three additional courses; on average one honors course per year: Non-Western Perspectives and then two upper division courses that emphasize interdisciplinarity. Each of these courses fulfills graduation requirements.

The 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, we have implemented a graduated scale towards the requirement of graduating with a 3.250 GPA. Specifically, students must have a cumulative grade point average of 3.000 after their Freshman year, 3.100 after Sophomore and 3.250 by the end of their Junior year. As noted above, students must always have a cumulative 3.250 GPA to be eligible for scholarships.

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

Honors courses are preferentially for Honors College students, although non-Honors students with a 3.25 GPA are encouraged to enroll if space is available. Requests for admittance must be approved by the Honors College Office.

## Honors College (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 College. (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 or COM1 requirement. *Prerequisite:* participation in the UW Honors College. (Offered fall semester)

**1200. People and Policy. 3. [V♦♦(none)]** This course focuses on reading American and Wyoming political documents in an historical and interdisciplinary context, and extends the discussion into the present day, situating what we know about America as a political nation, Wyoming as a political state, and ourselves as people and citizens within both our founding political documents and the history of interpretations and extensions of those documents. *Prerequisite:* participation in UW Honors College.

**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 (2151/Max. 6, 2152/Max. 6, 2153/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 College students. *Prerequisites:* sophomore standing and participation in UW Honors College.



**3151, 3152, 3153 [3150]. Modes of Understanding. 3 (3151/Max. 6, 3152/Max. 6, 3153/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 (4151/Max. 6, 4152/Max. 6, 4153/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 Student Success Services, contact Sara Whittle at (307) 766-5709; [swhittle@uwyo.edu](mailto:swhittle@uwyo.edu).

## UWYO (UWYO)

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

**1000. IC for Undeclared Students. 2. [I,L♦(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 Academic Success. 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.

**1060. College Athletics and Society. 3.** This course will examine the unique relationship between intercollegiate athletics and higher education, as well as intersections that occur with gender, politics, and race.

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

**1105. Academic Success Skills. 1-2 (Max. 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. The 2-credit UWYO 1105 option is graded A-F; the 1 credit UWYO 1105 option is graded Satisfactory/Unsatisfactory.

**1205. Student Success Services First Year Seminar. 1. [I,L♦(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,L♦(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,L♦COM2]** Provides returning veterans skills for successful transition to college and civilian life. Reviews tools for academic success, resources available to the veteran, information on veteran related challenges, and career planning resources. Students will develop skills in written, oral, and digital communication. *Prerequisite:* Students must be a U.S. military veteran or an active duty military member. (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.

**3050. Student-Athlete Career Prep. 1.**

Works with junior and senior student-athletes as they prepare to leave college and embark on their career search. Includes topics such as: resume writing, cover letter writing, practice interviews, professional attire, interview etiquette, and mental health after college athletics. Satisfactory/Unsatisfactory only. *Prerequisite:* COM2.

**4965. Directed Studies/Research Problems. 1-3 (Max. 12).**

Interdisciplinary international undergraduate research or short-term study abroad project under the supervision of a visiting faculty member. Topics and themes will vary based on the international research and study abroad opportunities available. *Prerequisites:* Completion of COM1 and consent of instructor. Undergraduate status in good academic standing. Additional prerequisites will be determined by instructor of record.

# Advising Career Exploratory Studies

Jo Chytka, Director

222 Knight Hall

Phone: (307) 766-2398 FAX: (307)766-2089

Web site: [www.uwyo.edu/aces/index.html](http://www.uwyo.edu/aces/index.html)

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## Advising Career Exploratory Studies (ACES)

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

**3000. Peer Advising. 3.** This course is designed to help you develop the skills, understanding, competencies, and dispositions needed to be an effective peer advisor at UW. Course content will cover student development theory, interpersonal skills, UW policies/procedures, UW academic requirements, and advising approaches. *Prerequisites:* Sophomore standing, COM2, and 2.750 UW GPA.

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## STEP

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

**1060. College Athletics and Society. 3.** This course will examine the unique relationship between intercollegiate athletics and higher education, as well as intersections that occur with gender, politics, and race.

**1101. First-Year Seminar. 3.** [none]↔FYS]

**1102. Pathways College Success. 1.** Helps students interact with UW campus resources, staff, and faculty; learn about resources for academic support and wellness; and explore academic and co-curricular opportunities for students' professional and personal interests. Restricted to new full-time, first-year freshmen.

**1105. Academic Success Skills. 1-2.** 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. The 2-credit STEP 1105 option is graded A-F; the 1 credit STEP 1105 option is graded Satisfactory/Unsatisfactory.

**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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 GOHEEN, JACOB R., Zoology and Physiology  
 GOLDENSTEIN, CHERYL,  
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 American Heritage Center  
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 GOOD, JULIAN, Nursing  
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 GOODWIN, ELIZABETH, Nursing  
 GORONCY, ALEXANDER, Chemistry  
 GOUAL, LAMIA, Petroleum Engineering  
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 Resources, Geology and Geophysics  
 GRANUM, NANCY, Nursing  
 GRANT, EMILY, WySAC  
 GRAY, MATTHEW J., Psychology  
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 GUO, WEI, Animal Science  
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 Gender, and Social Justice  
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 Creative Writing, Learn  
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 Classical Languages  
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 and Natural Resources  
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 and Geophysics  
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 HUMMER-BELLMAYER, JULIE, Nursing  
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 and Classical Languages  
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 KELLENNERS, THIJS, Ecosystem  
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 KELLY, ROBERT L., Anthropology  
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 and Applied Science  
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 and Physiology  
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 and Geophysics  
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 Cooperative Unit  
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 Gender, and Social Justice  
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 MOUSAUIRAAD, MAYSAM,  
 Mechanical Engineering  
 MUKAI, DAVID J., Civil and  
 Architectural Engineering  
 MUKNAHALLIPATNA, SURESH S.,  
 Electrical and Computer Engineering  
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 Science and Management  
 MURPHY, MELISSA, Anthropology  
 MURPHY, SHANE, Atmospheric Science  
 MYERS, ADAM, Physics and Astronomy  
 MYERS, JAMES D., Geology and Geophysics

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 NAIR, SREEJAYAN, Pharmacy  
 NASCHOLD, FELIX, Economics  
 NAUGHTON, JONATHAN W., Mechanical Engineering  
 NAVRATIL, AMY M., Zoology and Physiology  
 NEESON, WENDY WOOD, Nursing  
 NELSON, BURRELL, Botany  
 NEWELL, MARCIA, Nursing  
 NEWMAN, MATTHEW, Civil and Architectural Engineering  
 NG, KAM, Civil and Architectural Engineering  
 NGANGA, LYDIAH, School of Teacher Education  
 NGUYEN, THANH-NGA, Pharmacy  
 NICKERSON, GREGORY, Wyoming Cooperative Unit  
 NIELSON, KRISTY, Nursing  
 NIPPGEN, FABIAN, Ecosystem Science and Management  
 NIU, ZHUANG, Wyoming Cooperative Unit  
 NIU, ZHUANG, Mathematics  
 NOAH, GEORGE, Air Force ROTC  
 NOBLE, KENT, Management and Marketing  
 NOJABAEI, BAHAREH, Petroleum Engineering  
 NORTH, CHRISTOPHER, Life Sciences, Botany  
 NORTHROP, KATE, Creative Writing  
 NORTON, JAY, Ecosystem Science and Management  
 NORTON, URSZULA, Plant Sciences  
 NOVAK, DOMEN, Electrical and Computer Engineering  
 NOVOGRODSKY, NOAH B., Law  
 NOY, SHIRI, Sociology  
 NUNEZ, NARINA L., Psychology  
 NYE, ERIC W., English  
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 O'BRIEN, JOHN F., Electrical and Computer Engineering  
 O'BRIEN, YELENA, Electrical and Computer Engineering  
 O'MALLEY, CONOR, Physics and Astronomy  
 O'TOOLE, DONAL T., Veterinary Sciences  
 OBERT, JULIA, English  
 OGDEN, FRED L., Haub School of Environment and Natural Resources, Civil and Architectural Engineering  
 OGGERO, ELENA, Electrical and Computer Engineering  
 OHARA, NORIAKI, Civil and Architectural Engineering  
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 OUNG, ALVIN, Pharmacy  
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 PAGNACCO, GUIDO, Electrical and Computer Engineering  
 PAIGE, VIRGINIA B., Ecosystem Science and Management  
 PAINTER, MATTHEW A., Sociology  
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 PANTER, KAREN, Plant Sciences  
 PARKER, SYLVIA, Science and Mathematics Teaching Center  
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 PATTON, TRACEY OWENS, African and American Diaspora Studies, Communication and Journalism  
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 PECK, ANN, Mechanical Engineering  
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 PETRINI, SHAWN, Nursing  
 PEXTON, VALERIE, English, Creative Writing  
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 PICCORELLI, JUSTIN, Political Science  
 PICKETT, BRENT, Political Science  
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 PIETENPOL, ANNELEISE, Criminal Justice, Sociology  
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 PROCTOR, J'LAINE, Nursing  
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 SEWCZAK-CLAUDE, GRETCHEN,  
 Kinesiology and Health  
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 SHARMA, VIVEK, Plant Sciences  
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 Architectural Engineering  
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 SHUMAN, BRYAN, Geology and Geophysics  
 SIEGER, CRYSTAL, Music  
 SIMPSON, JANELLE, WySAC  
 SIMS, KENNETH, Geology and Geophysics  
 SINGH, RESHMI, Pharmacy  
 SINIFT, SHERRY, Music  
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 SKINNER, DONAL C., Zoology  
 and Physiology  
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 Zoology and Physiology  
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 and Marketing  
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 Classical Languages  
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 STEINKRAUS, HOLLY, Molecular Biology  
 STEINMAN, BERNARD, Family  
 and Consumer Sciences  
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 and Journalism  
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 Communication and Journalism  
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 SUN, QIAN QUAN, Zoology and Physiology  
 SUROVELL, TODD, Anthropology  
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 Architectural Engineering  
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 Petroleum Engineering  
 TAN, GANG, Civil and Architectural  
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 Architectural Engineering  
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 and Physiology  
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 THORPE, JEFFERSON, Air Force ROTC  
 THORSNESS, MARY K., Molecular Biology  
 THORSNESS, PETER E., Molecular Biology  
 THUNSTROM, LINDA, Economics  
 THYAGARAJAN, BASKARAN, Pharmacy  
 TINKER, DANIEL B., Botany  
 TOELLE, BRIAN, Petroleum Engineering  
 TOLO, KHAMA-BASSILI, Modern  
 and Classical Languages  
 TOOHEY, JASON, Anthropology  
 TOTH, WELDONNA, Nursing  
 TRAYLOR, REBA, Nursing  
 TREICK, PHILIP, Accounting and Finance  
 TRELEASE-BELL, AMY, Family Practice  
 TRENT, ALLEN, School of Teacher Education  
 TULL, CANDACE, Nursing  
 TURPEN, J. SCOTT, Music  
 TURPEN, JENNIFER, Music  
 URYNOWICZ, MICHAEL A., Civil  
 and Architectural Engineering  
 UTTERBACK, KRISTINE T., Religious Studies  
 VALI, GABOR, Atmospheric Science  
 VAN DIEPEN, LINDA, Ecosystem  
 Science and Management  
 VAN 'T VELD, KLAAS T., Economics  
 VANCE, BRENDA, Nursing  
 VANDERBORGH, BETH, Music  
 VANDIVER, JEREMY W., Pharmacy  
 VAUGHAN, KAREN L., Ecosystem  
 Science and Management  
 VAUSE, HOLLY, Nursing  
 VERLEY, JIMMIE, Physics and Astronomy  
 VIETTI, LAURA, Geology and Geophysics  
 VOLK, JEREMIAH, Social Work  
 WACHOB, DOUG, Haub School of  
 Environment and Natural Resources  
 WADE, CHRISTINE, Family and  
 Consumer Sciences  
 WAGGENER, JOHN, American  
 Heritage Center  
 WAGGENER, LESLIE, American  
 Heritage Center  
 WAGNER, CATHERINE, Botany  
 WALL, DANIEL, Molecular Biology  
 WALLHEAD, TRISTAN,  
 Kinesiology and Health  
 WALRATH, DAVID E., Mechanical  
 Engineering  
 WAMBEAM, RODNEY, WySAC  
 WANG, LIPING, Civil and  
 Architectural Engineering  
 WANG, WENYONG, Physics and Astronomy  
 WANG, ZHIEN, Atmospheric Science  
 WARD, JAMES, Computer Science  
 WARD, NAOMI, Molecular Biology and Botany  
 WARD, SETH, Religious Studies  
 WASSERBURGER, TRACY, Nursing

- WATSON, RACHEL, Molecular Biology  
 WATSON, WILTON, Visual and Literary Arts  
 WAWROUSEK, KAREN,  
     Chemical Engineering  
 WEATHERFORD, LARRY R.,  
     Management and Marketing  
 WEATHERMON, RICK, Anthropology  
 WEBER, MARY, Nursing  
 WEBER, WILLIAM, Mathematics  
 WEBSTER, GERALD R., Geography  
 WEDEMEYER, JOHANNA, Nursing  
 WEIGEL, RANDOLPH R. , Family  
     and Consumer Sciences  
 WEINART, CLARANN, Nursing  
 WEINIG, CYNTHIA, Botany,  
     Molecular Biology  
 WEINLAND, ROBERT, Nursing  
 WELSH, KATHERINE MUIR,  
     School of Teacher Education  
 WESTERN, JESSICA, Haub School of  
     Environment and Natural Resources  
 WHEELLOCK, ANDREW, Music  
 WHIPPLE, GLEN D., Agricultural  
     and Applied Economics  
 WILDMAN, KAREN M., Family Practice  
 WILKOWSKI, BENJAMIN, Psychology  
 WILLEY, LAWRENCE D.,  
     Mechanical Engineering  
 WILLFORD, JOHN, Molecular Biology  
 WILLIAMS, DAVID G., Botany, Ecosystem  
     Science and Management  
 WILLIAMS, DUANE, Agricultural  
     and Applied Economics  
 WILLIAMS, KAREN, Family and  
     Consumer Sciences  
 WILLIAMS, LINDA G., Nursing
- WILLIFORD, JASON, Mathematics  
 WILSON, MARGARET, Theatre and Dance  
 WIMBISH, LAUREL, WySAC  
 WINTERS, KATHERINE I.,  
     American Heritage Center  
 WISLOWSKI, ANN, Nursing  
 WODAHL, ERIC, Criminal Justice  
 WOFFORD, TERRI, Wyoming Institute  
     for Disabilities (WIND)  
 WOODS, TONJA M., Pharmacy  
 WRASPER, CHERYL, Nursing  
 WRIGHT, CAMERON H.G., Electrical  
     and Computer Engineering  
 WRIGHT, LOU ANNE, Theatre and Dance  
 WRIGHT, WENDY, Nursing  
 WU, CHI-CHEN, Music  
 WULFF, SHAUN S., Statistics  
 XU, CHEN, Geography  
 XU, XIN (SHAWN), Accounting and Finance  
 YEUNG, MAN-CHUNG, Mathematics  
 YIN, SHUNDE, Petroleum Engineering  
 YOCOM, DOROTHY JEAN, School  
     of Counseling, Leadership,  
     Advocacy & Design  
 YOUNG, SUZANNE, School of Counseling,  
     Leadership, Advocacy & Design  
 ZALESKY, DOUG, Animal Science  
 ZARBOCK, SOMMER, Pharmacy  
 ZHANG, CHUNZAO, Zoology and Physiology  
 ZHANG, LINDA, Geology and Geophysics  
 ZHANG, TENG (TIM),  
     Accounting and Finance  
 ZHANG, YAN, Modern and  
     Classical Languages  
 ZHANG, ZHAOJIE, Zoology and Physiology
- ZHENG, KENNETH W.,  
     Accounting and Finance  
 ZHOU, JING, Chemistry  
 ZHU, JIANTING (JULIAN), Civil and  
     Architectural Engineering  
 ZHU, MENGQIANG, Ecosystem  
     Science and Management  
 ZHU, QIN (ARTHUR), Kinesiology and Health  
 ZIBRAK, ARIELLE, English  
 ZLATKOVIC, MILAN, Civil and  
     Architectural Engineering  
 ZOOK, KATRINA, Music