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 89 semester credit hours of law courses with a grade point average of at least 2.0.

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

Accreditation

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

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

Prelegal Curriculum

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

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

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

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

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

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

1. Prior to beginning work in the College of Law, applicants must have a bachelor’s degree from an accredited college or university, unless they have requested and been granted one of the following exceptions:
   a. An applicant who needs not more than 6 semester hours of college credit to qualify for a bachelor’s degree may be admitted in exceptional cases to law school if the committee determines that the applicant has sufficient education and preparation for the study of law; has an outstanding undergraduate scholastic record; and has an approved program signed by the appropriate undergraduate official indicating that the remaining requirements for the bachelor’s degree may be met by summer school attendance or by other means that will not interfere with the study of law.
   b. In very exceptional cases, an applicant without a bachelor’s degree may be admitted as a special student and become a candidate for the professional degree in law. The applicant must furnish evidence to satisfy the committee that age, experience, and training have equipped the individual to engage successfully in the study of law despite the lack of the required prelegal education.

2. Every applicant must take the Law School Admission Test. A packet giving information about the test, the dates on which it is given, and centers at which it can be taken, sample questions and an application form, may be obtained from Law School Admission Council, Box 2000, Newtown, PA 18940, by phone at (215) 968-1001, online at www.lsac.org.

3. Every applicant must register with the Law School Admission Council Credential Assembly Service, CAS. Registration may be done through the LSAC website (www.lsac.org). The CAS will prepare a report that is transferred to the college.

4. Every applicant must complete the electronic University of Wyoming College of Law Application through LSAC between October 1 and March 1. Applications received by December 1 will be considered for early admission.

5. Official transcripts sent directly to the College of Law from each college attended must be on file in the Admissions Office at least 30 days before the student’s registration date.

Application Deadline

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

Admission With Advanced Standing

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

Joint Degree Programs

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

Nonprofessional Degree Students

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

Law (LAW)

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

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

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

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

6150. Judicial Remedies. 3.
6160. Legal Writing I. 2. In this course students are introduced to the fundamentals of legal reasoning and analysis and the basics of legal writing.

6165. Legal Research. 1. Introduction to paper and electronic resources that cover primary & secondary legal materials, including case law, statutes, agency regulations for federal and state jurisdictions, & treatises, journals, restatements, and other secondary sources. Discusses research plans and develops brief research strategies for hypothetical situations. Prerequisites: none.

6170. Introduction to Law. 1. Provides first-semester students with an introduction to the procedures and structure of the legal system to facilitate law study during the first year of law school. Additionally, the course provides students with an introduction to preferred learning methods for efficient law school study. Prerequisites: none.

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

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

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

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

6250. Constitutional Law I. 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. This course builds on the first semester Legal Writing course by introducing students to: (1) more sophisticated aspects of legal reasoning, analysis and legal research; (2) the basics of persuasive legal writing; (3) the basics of appellate procedure and an appellate brief; and (4) the basics of oral advocacy.

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

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

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

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

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

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

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

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

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

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

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


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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6715. Immigration Law. 3. Practical approach to topics such as the standards for admission of immigrants; nonimmigrant visas for students, workers and tourists: regulation and exclusion of undocumented aliens; legal procedures for admission, exclusion and deportation; refugee law; and citizenship law. Additionally, legislative history and policy behind applicable legislation and case law is discussed. Prerequisites: completion of the first year of law school.

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

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

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

6735. Native American Natural Resources Law. 3. Examines federal and tribal law, (chiefly statutes, regulations, cases and treaties), governing environmental regulation and management of tribal land water minerals, fish and wildlife, and cultural resources. Explores the federal trust doctrine, aboriginal title, reserved rights, allotment, and the tribes-as-states-doctrine. Prerequisites: none.

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

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

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

6755. Legislation. 3. Examines how statutes are made and applied. Priorities are 1) legislative process in Congress and the state legislatures (especially Wyoming), and; 2) statutory interpretation tools and techniques. Prerequisites: none.

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

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

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

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

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

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

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

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

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

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

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

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

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

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


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.


6925. Advanced Persuasive Writing. 3. Art and science of written legal persuasion. Specifically, course explores the nature of legal persuasion from the standpoints of numerous disciplines, including classical rhetoric, psychology, literary theory, and morality theory, and based on these principles, covers specific strategies lawyers can use to make their writing more persuasive. Prerequisite: 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. Satisfactory/unsatisfactory only. Prerequisite: third year standing.

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

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

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

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

6990. Advanced Topics. 3.
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.

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### Army ROTC

#### Department of Military Science
207 Wyoming Hall, 766-3390
FAX: (307) 766-3383
Web site: [www.uwyo.edu/armyrotc](http://www.uwyo.edu/armyrotc)

**Professor:**

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

**Assistant Professors:**

BRYAN K. HULIN, Captain, U.S. Army, Special Forces; B.A. Virginia Tech 1996; M.S. University of Wyoming 2001; Assistant Professor of Military Science 2008.

**Lecturers:**

JAMES SHACKELFORD, Sergeant First Class, U.S. Army Field Artillery; Military Science Instructor 2012.

SCOTT STEIERT, Master Sergeant, Senior, U.S. Army; Military Science Instructor 2012.

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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.

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### 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. For the military science minor, the student must complete the core curriculum of 19 hours and 4 electives offered from within the Department of Military Science.

The core curriculum is:

- ARMY 3010, 3020, 3025 or 3026, 3030, 4010, 4015, 4016, 4020, 4025 or 4026, and HIST 2020

The electives offered are:

- ARMY 2060, 3050, 3060, 3070, 4050, 4975

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

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### 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.

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### Special Scholarship Program

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

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

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

Leadership Laboratory

Leadership laboratory provides instruction that complements the classroom. This time provides practical application on subject matter taught in class. Leadership and management dynamics are inherent in this practical application. All students enrolled in a military science course must enroll in the appropriate leadership laboratory unless consent is obtained from the Professor of Military Science. Training includes land navigation, first aid, communications, basic rifle marksmanship, drill and ceremonies, decision making, squad movement and problem solving. This instruction is cadet planned and presented with immediate instructor feedback. The goals of this period are to instill self-confidence, self-discipline and responsibility in each cadet.

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

Veterans’ Option

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

Military Obligation

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

Extracurricular Activities

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

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

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

Suggested Course Sequence

<table>
<thead>
<tr>
<th>FRESHMAN YEAR: Fall</th>
<th>Hrs.</th>
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<tbody>
<tr>
<td>ARMY 1010............</td>
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<tr>
<td>Lab (mandatory).....</td>
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<tr>
<td>PEAC 1272 (voluntary)</td>
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<tr>
<td>PEAC 1001...........</td>
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<tr>
<td>ARMY 3060 (voluntary)</td>
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<td>FRESHMAN YEAR: Spring</td>
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<td>PEAC 1272 (voluntary)</td>
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<td>SOPHOMORE YEAR: Fall</td>
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<td>HIST 2020 (mandatory)</td>
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<td>ARMY 3026 (mandatory)</td>
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<td>SENIOR YEAR: Fall</td>
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<td>ARMY 4050 (voluntary)</td>
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<td>SENIOR YEAR: Spring</td>
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<tr>
<td>ARMY 4016 (mandatory)</td>
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Army ROTC
Military Science (ARMY)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M3•PQI]).

1000. Dynamics of Leadership I. 1. [F1•(none)] Introduces UW, university life and U.S. Army. Instills awareness of the role that Army ROTC plays in developing leaders. Provides students with skills and strategies that enable them to make successful transitions to university life.

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.


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. Prerequisite: none.

3010. Leadership and Tactics I. 3. 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, sustained 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 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. Prerequisite: 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. Prerequisite: 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. Prerequisite: ARMY 3010, 3020 or consent of department head.

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

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

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

4025. Principles of Training Management. 1. Introduces students to the Army’s system of training management. Covers principles and philosophy of training, training guidance, training cycles, soldiers/leader tasks, techniques for collective and multi-echelon training, as well as procedures for short-term planning. Prerequisite: consent of instructor.

4026. Preparation of Training. 1. Introduces the Army’s system of training preparation. Covers short-range training plans, training meetings, development of timelines, publishing of training schedules, training and evaluation outlines, as well as rehearsals. Prerequisite: consent of instructor.
4050. Management Internship: Cadet Troop Leadership Training. 2. Conducted at an active Army installation. Students (under supervision) assume duties of and function as a junior commissioned officer for three-week period. Written evaluation of student’s performance is returned. Offered for S/U grade only. 

Prerequisites: ARMY 3010, 3020 and consent of department head.

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

Air Force ROTC
Department of Aerospace Studies
110 Wyoming Hall, 766-2338
Fax: (307) 766-2357
Web site: www.uwyo.edu/airrotc

Professors:

CARISSA M. HOSTETLER, Captain, U.S. Air Force; B.S. Colorado State University 2008; Assistant Professor of Aerospace Studies 2012.

RICHARD L. BARNARD IV, 1st Lieutenant, U.S. Air Force, B.S. Florida State University 1995; M.B.A. Webster University 2003; M.S. Air University 2009; Professor of Aerospace Studies 2012.

The Department of the Air Force supervises the detachment on campus. Uniforms, AFROTC books, and the necessary Air Force equipment are furnished by the government. All university students, both male and female, are eligible to apply for admission into the program.

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, 4230, 4240, 4250, 4290, 4300, 4330, 4340

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.

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 required by the university, 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.

Two-Year Program

Students with prior, honorable military service or that completed the GMC program at another school and transferred to UW may complete AFROTC on a two or two and one-half year program. These students should contact the Recruiting Flight Commander six months in advance of starting ROTC classes to complete the prerequisites, the admissions process, and compete for an enrollment allocation that is required to enter the POC. It is possible for students to pursue graduate studies and obtain a commission as long as the commission is attained by age 29 for students entering flight training or age 34 for non-flying students.

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 Program

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 room awards 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) 766-3711; email at airforce.rotc@uwyo.edu, early in the fall of their senior year. Sophomore or transfer students interested in competing for a scholarship should contact the Recruiting Flight Commander before the fall semester prior to junior standing.
Military Obligation

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

Extracurricular Activities

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

Air Force (AIR)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M3•QI]).

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, officerhip 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. Prerequisites: none.


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. Prerequisites: none.

2020. The Evolution of Air and Space Power II. 1-1/2. Second semester of one-year series. Continues AIR 2010 and features top-
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 change; and plan for the future. The Bachelor of Applied Science degree (BAS) is designed for individuals with a minimum of two years work experience who have completed an Associate of Applied Science 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. Students with Associate of Science (A.S.) or Associate of Arts (A.A.) degrees who have the relevant work experience may also apply.

The fundamental philosophy of the BAS degree is that the student must complete the general education 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 BAS 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 (University Studies Program) and the upper division professional concentration.

The University Studies Program (USP) Component consists of a minimum of 30 credit hours as adopted by the UW faculty, and the Articulation Agreement between UW and the Wyoming Community Colleges (www.uwyo.edu/unst/Artic_agree_full.pdf). 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 acquired as part of the student’s UW coursework, including the Professional Concentration or Electives coursework.

With the adoption of some consistency across institutions in AAS general education credit requirements, fulfillment of the 30 credit USP Component combining Community College and UW credits can be formally articulated.

The Career Specialty Component is fulfilled with the Associate of Applied Science degree. 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.

The Elective Component will consist of the number of credit hours needed (after completing the other three components) to complete the degree requirements.

University of Wyoming Bachelor of Applied Science (BAS)

I. Requirements for a BAS Degree
1. Have been awarded the A.A.S., A.S. or A.A. degree from a Wyoming community college or elsewhere and credits fulfill the Wyoming AAS General Education Core.
2. Two years of work experience.
3. Application and admission to the University of Wyoming completed.
4. Minimum number of credits needed for degree, by College of Agriculture and Natural Resources: 120 total.
5. Minimum of 48 credits must be taken in upper division courses, 30 of which must be from UW.
6. More than 70 hours may be transferred from a Wyoming community college or elsewhere, but all University of Wyoming requirements must be met.
7. Required credits comprised of Components II through V below:

II. University Studies Program Component - 32 credits

Wyoming Community Colleges have defined an AAS Common General Education Core Curriculum of 16 credits, required for an AAS degree from a Wyoming community college that provides entry to the UW BAS degree. Completion of the BAS requires completion of the additional courses as indicated.

AAS Transferred Core
(UW USP 2003 equivalency indicated)
Written Communications (WA and WB) .....6
Quantitative Reasoning at 1000 level or higher (QA) ........................................3
US and Wyoming Constitutions (V) ..........3
Cultural Context: (Arts/Sociology/ Humanities/Communications/Diversity (C)) ........................................3
Physical Activity and Health (P) ............1
Total 16

Additional USP Requirements for BAS degree
Upper Division Written Communications (WC) ENGL 4010**.................................3
Oral Communications (O) COJO 1010***...3
Quantitative Reasoning (QB) STAT 2050 or STAT 2070 ...........................................3
Cultural Context: from upper division, may be embedded (CA, CH, CS, G, D) ...........6
Science (S) LIFE 1002..............................4
** ENGL 4010 is included in Professional Concentration area 2
***The “O” requirement might be met at the AAS level, in order to accommodate an upper division WB course.

III. Career/AAS Specialty Component - 40-60 credits

An Associate of Applied Science degree awarded from a Wyoming community college, or other accredited institution, will satisfy the Career Specialty Component (check with the community college for selected AAS programs). With completion of an Associate of Arts or Associate of Science this component is fulfilled.

IV. Professional Concentration Component (illustrative) - 36-40 credits

Students satisfy this component by taking an array of largely upper-division courses distributed across a prescribed set of areas of concentration. In one possible scenario, the areas to be included are outlined below.

1. AGRI 3000: Discovering and Utilizing Ideas and Information - 3 credits

This is a 3-credit course that provides the framework for effective learning in this degree program. Learning in this area guides students to accessing, evaluating, and utilizing information and ideas; communicating information and ideas effectively and responsibly; civic engagement for individual, organizational and community problem-solving;
and applying new skills, knowledge, and perspectives in a contemporary society. [USP: I, L]

2. Communicating in Writing and Speaking (2 courses) - 6 credits

All personal and professional interactions require effective communication, both in writing and in speaking. This area guides students towards the acquisition and utilization of these skills.

**Selected from:**
- COJO 3190 Cross-Cultural Communication [D] .................................3
  Prerequisite: COJO 1040
- COJO 3010 Business and Professional Communication ....................3
  Prerequisite: COJO 1010
- ENGL 4010 Technical Writing in the Professions [WC] .......................3

3. Analysis and Problem-Solving (1-2 courses) - 3-6 credits

Effective decision-making requires the ability to acquire, evaluate and utilize information and data. This area guides students into an examination of the tools and methods available and the interpretation and utilization of the results of such analyses.

**Selected from:**
- AS/AGRI 4990 Organizational Problem-Solving in the Social Sciences ......3
- ENR 4500 Risk Analysis [QB] .......................................................3
  Prerequisite: Math 1000 or 1400, Intro to Statistics
- FCSC 3110 Personal Finance ....................................................3
  Prerequisite: junior standing

4. Organizational Leadership (4 courses from one option) - 12 credits

Individuals in leadership positions at levels require an understanding of organizational design, behavior, and change. This area guides students into an examination of organizational models; human and financial resource management; negotiation and conflict resolution; ethical practices; legal and regulatory issues; and public relations and marketing.

**OPTION A: Community Development**
- AGEC 3750 Natural Resource Planning Economics ................................3
- AGEC 4660 Community and Economic Development ..........................3
  Prerequisite: ECON 1020 or SOC 2090, junior standing
- CHST 4720 Water Resource Economics ........................................3
- FCSC 4117 Working w/ Nonprofits & Boards ..................................1-3
  Prerequisite: senior standing and satisfactory completion of a WB course
- FCSC 4985 Seminar: Development in Community Leadership ..............2-3
- POLS 4420 Seminar in Public Admin ............................................3
- POLS 4710 Topics: Intro to the Non-Profit Sector ............................3
  Prerequisite: POLS 4710 Topics: Non-Profit Management & Leadership ...
- POLS 4710 Topics: Emerging Democracies .....................................1-3
- SOC 3500 Sociology of Gender ..................................................3
  Prerequisite: SOC 1000
- SOC 4020 Sociology of Work .....................................................3
  Prerequisite: SOC 1000, MGT 3210 or ECON 1010
- WMST 4400 Women and Work ...................................................3
  Prerequisite: 6 hours of WMST or SOC

**OPTION B: Managing Organizations**

This area of emphasis guides students through an examination of how managers create value by understanding and developing employee and customer relationships. It is strongly suggested that students complete ACCT 1010 and ECON 1010, both of which are available from, and articulated with, the community colleges throughout Wyoming before taking these courses. The area of emphasis consists of the following additional courses:
- MGT 3210 Management and Organizations ....................................3
  Prerequisite: junior standing
- MGT 3110 Business Ethics .........................................................3
  Prerequisite: sophomore standing
- MKT 3210 Introduction to Marketing ..........................................3
  Prerequisite: junior standing
- MGT 4410 Human Resource Management .....................................3
  Prerequisite: MGT 3210 and junior standing

**NOTE:** Students with this option may not take more than 30 hours (total) in business and must obtain a grade of C or better in each of the courses listed above in order to advance to the next course.

5. Contemporary Society (2 courses) - 6 credits

An understanding of social, cultural, economic, and environmental contexts is essential for effective leadership and the management of change. This area guides students into an exploration of the diversity and complexity of issues and interactions – from the local to the global.

**Selected from:**
- ANTH/POLS/WMST 3500 [WB] ......................................................3
  Prerequisites: WMST 1080 or cross listed equivalent
- COJO 3160 Theory of Language and Society [WC] ............................3
  Prerequisite: COJO 1030 and 6 hrs in dept.
- CRMJ 3200 Ethics and Administration of Justice ...............................3
- CRMJ 3500 Drugs and the Criminal Justice System .........................3
- CRMJ/CHST 4860 Social Inequality, Crime, Criminal Justice, and the Law ...3
- HIST 4490 Modern America, 1960-present ....................................3
  Prerequisite: HIST 1211 and 1221
- HIST 4545 Multicultural West ....................................................3
  Prerequisite: any history or social science course
- HIST 4340 History of American Women ........................................3
  Prerequisite: ENGL/WMST/SOC 1080, HIST 1211, 1221
- ENR 4890 Special Topics ............................................................3
- SOC 3500 Sociology of Gender ..................................................3

6. Career Electives - 9 credits

These courses and experiences help the student apply their learning in a workplace and community environment.

AGRI 4960, BAS Internship is available for 6 credit hours and will fit this category, but is not required. The course is done on a contract basis.

V. Elective Component - 22-30 credits

Hours needed to complete degree requirements will be selected by the student, in conjunction with the UW academic adviser, to meet the unique employment and career goals of the student.
Earth System Science (ESS) is an interdisciplinary, environmental science, undergraduate program focusing on the interactions between the various components composing the Earth system: the biosphere, geosphere, lithosphere, hydrosphere, atmosphere, and anthrosphere. Students earning a BS degree in ESS are required to declare a Concentration in one of the participating programs, which include Anthropology, Biology, Geography, Geology and Geophysics, Secondary Education, and Soil Science. ESS is administered under a committee of Deans, and the program Departments reside in the Colleges of Agriculture and Natural Resources, Arts and Sciences, Education, and Engineering and Applied Science. The program is currently administered in Arts and Sciences.

ESS is designed to be rigorous enough to prepare students for graduate studies in their chosen Concentration. The Core courses also provide informal and formal opportunities for students to communicate with those in other concentrations. Students are asked to approach both the ESS office and program faculty in their respective Concentration for advising. Seminars and field trips addressing various aspects of the Earth system are organized and announced by the program office.

ESS Major

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

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

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

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIFE 1000</td>
<td>Introduction to Earth Systems</td>
<td>4</td>
</tr>
<tr>
<td>MICR 2021 or 2022</td>
<td>Introduction to Environmental Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>LIFE 2023</td>
<td>Introduction to Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1020 or 1050</td>
<td>Introduction to Chemical Analysis</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1030 or 1060</td>
<td>Introduction to Physical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2200</td>
<td>Introduction to Mathematical Methods</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2205</td>
<td>Introduction to Mathematical Modeling</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 1210 or 1230</td>
<td>Introduction to Physical Science</td>
<td>4</td>
</tr>
</tbody>
</table>

Geographic Information Systems or Remote Sensing

(Choose one of the following):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 4200</td>
<td>Geographic Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>ANTH 4160</td>
<td>Anthropological Methods</td>
<td>3</td>
</tr>
<tr>
<td>BOT/GEOL/GEOG 4111</td>
<td>Remote Sensing I</td>
<td>3</td>
</tr>
<tr>
<td>BOT/GEOG 3150</td>
<td>Remote Sensing II</td>
<td>3</td>
</tr>
<tr>
<td>ATSC 4033</td>
<td>Introduction to Remote Sensing</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 4113</td>
<td>Introduction to GIS</td>
<td>3</td>
</tr>
</tbody>
</table>

Biogeochemistry

(Choose one of the following):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOT 4780</td>
<td>Introduction to Biogeochemistry</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 3020</td>
<td>Introduction to Chemical Cycles</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 3500</td>
<td>Introduction to Dynamic Earth</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 4777</td>
<td>Introduction to Geodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

Earth System Science (ESS)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M2●QB]).

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

2000. Geochemical Cycles and the Earth System. 4. [none]●SE] 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 GEOG 2000. Prerequisites: a 1000-level GEOL course with a lab and concurrent enrollment in CHEM 1020. (Normally offered fall semester)

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

4001. Modeling the Earth System. 4. Takes a modeling approach to demonstrate how the Earth is integrated into an interconnected system through exchanges of energy and matter, and how Earth system functioning is susceptible to human alteration. Unifying concepts focus on quantitative interactions between the Earth and the Sun, and between the Earth's lithosphere, hydrosphere, biosphere and atmosphere. Cross listed with ATSC/BOT/GEOL 4001. Prerequisites: MATH 2205 or equivalent and [ESS 2000 or GEOL 2000].
4950. **Exploring the Earth System. 3.**

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, ESS 3480, ESS 4001.

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

The Haub School is also home to the William D. Ruckelshaus Institute of Environment and Natural Resources, which supports stakeholder-driven solutions to environmental challenges by communicating relevant research and promoting collaborative decision making. In addition, the Haub School houses the Biodiversity Institute, which provides research, education, and outreach to support biodiversity conservation and management.

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

Degrees Offered

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

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

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

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

Program Admission

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

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

Undergraduate Major in ENR

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

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

Undergraduate Minor in ENR

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

Undergraduate Sustainability Minor

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

Curriculum

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

1. Foundations
   a. Foundations of Sustainability (ENR 1300, 3 credits)
2. Ethics. Choose one of the following:
   a. Environmental Ethics (PHIL 2330, 3 credits)

3. Electives. Complete 9-10 credits in one of the following tracks (see below for coursework):
   a. General sustainability
   b. Food systems
   c. Sustainable energy

4. Capstone
   a. Campus Sustainability (ENR 4600, 3 credits)

Learning objectives

A student completing any track will be expected to:

1. Demonstrate a theoretical and historical understanding of sustainability. Student will thoroughly understand more than one conceptual framework for sustainability and be aware of the evolving nature of the concept. Understand a brief history of sustainability.

2. Explore and evaluate the implications of personal sustainability values. Develop a model of sustainability informed by personal values and integrated into student's worldview. Think holistically about consequences of actions. Ability to intellectually respond to perspectives of sustainability outside their own.

3. Develop and implement sustainability solutions. Student will feel motivated and empowered to find solutions to sustainability challenges in his/her own life and community and have the ability to apply sustainability principles to his/her home discipline and professional career.

Elective tracks

A. General Track (Select 1 course from each category)

   Students seeking a general exposure to sustainability can select from a wide range of courses to complement their major and career interests. The key to this track is exposure to three different aspects of sustainability, including design, environment and culture/society.

   Design
   • Introduction to Historic Preservation (AMST 2400, 3 credits)
### Environment
- Agroecology (AECL 1000, 4 credits)
- Weather and Climate (GEOG 3450, 3)
- Global Sustainability: Managing Earth's Resources (GEOL 1600, 4)
- Energy: A Geopolitical Perspective (GEOL 3650, 4)
- Climate Change, Water, and Energy (HP 4152, 3)

### Culture and society
- International Food and Farm Cultures (AGEC 4280, 3)
- Cultures of Nature in the United States (AMST 3000, 3)
- Food in American Culture (AMST 3100, 3)
- The Anthropology of Global Issues (ANTH 3420, 3)
- Anthropology of Food, Culture, and Nutrition (ANTH 4020, 3)
- Environmental Anthropology (ANTH 4310, 3)
- Food, Health, and Justice (HLED 4020, 3)
- Foundations of Sustainable Planning (GEOG 4310)

#### B. Food Systems Track (Select 1 course from any 3 of 4 possible categories)

The demands of meeting future food needs in a sustainable manner require a critical and holistic approach to the current food systems. The diverse courses in the food systems track include ecological, economic, policy, cultural, and social justice aspects of our food system, in order to broaden the understanding of students who would otherwise approach this complex system only through a particular specialization.

### Ecology
- Agroecology (AECL 1000, 4)
- Organic Food Production (AECI/PLNT 4120, 3)
- Economics of World Food and Agriculture (AGEC 3860, 3)
- International Food and Farm Cultures (AGEC 4280, 3)
- Community Nutrition (FCSC 3147, 3)

### Social justice
- Food, Health, and Justice (HLED 4020, 3)
- Cultural

### Graduate Major in ENR

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

### Juris Doctor/Masters of Art in ENR

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

1. Core coursework – Second- or third-year students take ENR 5000 and 5900 for 6 credits of foundational coursework. The sequence is designed to introduce students to alternative approaches to problem solving and environmental assessment practices.

2. Elective coursework – Second-, third-, or fourth-year students must take a minimum of 9 credits outside the College of Law. Courses familiarize students with non-law ENR perspectives and approaches in environmental science, social science, and the humanities. Students work with a Haub School advisor to select courses from an approved list.

3. Environmental and natural resources law specialization – Students will take 12 credits within the law school to gain depth in ENR-law. Students select from an approved menu of courses. Special approval may be granted for special topics courses.

4. Professional experience – Typically during the summer after the student’s first or second year of law school, they will secure an internship in an environmental and/or natural resources professional setting. Internships may be unpaid or paid, and are subject to approval by a Haub School advisor or assistant director. After
completion of the internship, students will complete an associated independent study for 3-6 credits.

Students must also complete a terminal project known as the Plan B project. The Plan B project 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 assistant director. A public oral defense of the project is required. All members of the student’s committee must be present at the defense.

Learning Outcomes for ENR Students

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

1. Specialization & Integration – Students will complement their disciplinary depth with broad exposure to ENR-related disciplines and approaches.

2. Spatial & Temporal Perspectives - Understand the temporal and spatial characteristics of ENR challenges.

3. Policy - Recognize the content and implications of past and current ENR policies.

4. Cultures & Values - Appreciate the diversity of ENR perspectives and experiences, including the role of personal and collective value systems and structural inequalities in shaping those systems.

5. Complexity, Risk, & Uncertainty - Understand that ENR problems inherently involve complexity, risk, and uncertainty.

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

Environment and Natural Resources (ENR)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M3<>Q1]).

1000. Energy and Society. 3. [(none)<O]
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. Prerequisites: none.

1100. Environment and Natural Resource Problems and Policies. 2. [(none)<I, L]
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. Prerequisites: none.

1200. Environment. 4. [(none)<SB].
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. Prerequisites: none.

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. Prerequisites: none.

1500. Water, Dirt, and Earth’s Environment. 4. [(none)<SE].
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. Prerequisites: none.

2000. Environment and Society. 3. [W2, C2, G1<>G]
Develops understanding of the nature and dimensions of environmental and natural resource issues. Explores ways in which elements of society approach, evaluate, and develop positions relative to environmental issues. Uses case studies to illustrate the contemporary and historical role of individuals and societies in identifying and addressing environmental issues at scales ranging from local to global.

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

2330. Environmental Ethics. 3. [CI<>CH]
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. [(none)<>CH, D]
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. Prerequisites: none.

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

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

3000 [4000]. Approaches to ENR Problem Solving. 3. [M3<> CS,WB]
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. [C1, W2\(\text{(none)}\)] 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. ( 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)

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

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

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

3750 [4750]. Natural Resource Planning and Economics. 3. Economic concepts and rudimentary analytical tools are applied to federal, state and local natural resource planning and management programs. The value of economic input into natural resource policy is examined. Evaluating tradeoffs and resolving conflicts play a particularly important role in the course content. Cross listed with 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. Examines how technology, practices, 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.

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. [C2, G1\(\text{CS}\)] Geographically analyzes conservation of natural and human resources, as well as political, social and ethical ramifications of our environmental policy. Cross listed with AMST 4040. Prerequisite: 6 hours of geography or ENR.

4051. Environmental Politics. 3. [C2, W3\(\text{WC}\)] Examines how to use environmentalism as a political phenomenon. Provides students with a basic understanding of how to analyze political issues by: (1) examining the historical and contemporary issues that produce controversy over environmental matters; and (2) surveying the impacts of these issues on the formulation and implementation of laws, policies, and regulations. Cross listed with AMST, POLS, GEOG and REWM 4051. Prerequisite: POLS 1000.

4052. Federal Land Politics. 3. Examines the political forces that have shaped and continue to shape federal land policy and management. Explores the interactions between democratic decision making and science in the management of federal lands. Surveys the sources of controversy over federal land management and methods for harmonizing public demands with technical expertise. Cross listed with POLS/AMST/GEOG/REWM 4052. Prerequisite: POLS 1000.

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

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

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

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

4500. Risk Analysis 3. [(none)\(\text{QB}\)] Introduces basic concepts of risk analysis, including risk perception, identification, assessment, communication, management, and policy. Provides quantitative treatment of risk assessment procedures, fundamental mathematical models, and the concepts of variability and uncertainty; and practical experience in risk analyses conducted by teams of students. Emphasizes environment and natural resource examples. Dual listed with ENR 5500. Prerequisites: MATH1000 or 1400, introductory statistics and familiarity with Excel spreadsheets.
4501. Risk Analysis Computer Laboratory. 1. Laboratory section in which students use computer software to apply Monte Carlo analysis and Decision Analysis to environmental case studies. Laboratory section facilitates application of principles of risk analysis in decision-making presented in lecture in ENR 4500. Dual listed with ENR 5501. Prerequisite: Concurrent enrollment in ENR 4500/5500.

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 AGE 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. Environmental and Natural Resource Assessment Practice. 3. [C2, W3] Examines 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. Prerequisites: ENR 3000 and 3900.

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 5900; cross listed with ERS 4950. Prerequisites: ENR 3700 and consent of instructor.

4970. ENR Internship. 1-6.0 (Max. 6). Provides practical experience in environmental and natural resource policy, management and decision processes, as well as interaction with professionals in the field. Offered S/U only Prerequisites: ENR 3000 and 3900.

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. 2. 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.

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

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

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 4980. Prerequisite: ENR 5000 or consent of instructor.

5900. Solving Multidisciplinary Problems in ENR. 3. Participation in a multidisciplinary research team to solve a real or simulated problem in environment and natural resources. Dual listed with ENR 4900. Prerequisites: graduate standing and ENR 5000.

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

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

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

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

Learning Outcomes

We expect that students completing LBRY courses will become knowledgeable consumers of information through learning how to:
1. Recognize and define the need for information;
2. Efficiently locate information in the library or on the Internet;
3. Evaluate the quality of information;
4. Utilize information effectively, ethically, and legally.

Information Literacy (LBRY)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M2\(|\text{QB}\)]).

3010. [(none)] Researchers 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. **Prerequisite:** ENGL 1010 or equivalent, junior standing.

3020. Managing and Navigating the World of Information. 3. [(none)] Prepares students to be knowledgeable consumers of information in our global, high-tech society. Skills taught will enable students to locate and manage information resources, preparing them for university level research and life after graduation. **Prerequisite:** USP WA course.
BRYAN BERRYHILL, B.S. Colorado State University 2001; Head Track and Field Coach 2012.
MARK P. BRANCH, B.S. Oklahoma State University 1997; Masters in Athletic Administration 1999; Head Wrestling Coach 2008.
EDGAR DEAN CLOWER, B.A. Lamar University 2005; Head Women’s Tennis Coach 2012.
PETER CUADRADO, B.A. Texas Christian University 2000; M.L.A. Valparaiso University 2002; Head Women’s Soccer Coach 2012.
BRENT FLETCHER, B.M. University of Wyoming 2008; Director of Ticket Operations 2011.
TRENT GREENER, B.S. University of Wyoming 1990; M.S. 2002; Director of Strength and Conditioning 2009.
TIMOTHY J. HARKINS, B.S. University of Kansas 1984; M.S. University of Tulsa 1992; Associate Athletic Director Media/Public Relations 2007, 1991.
JESSICA KUMKE, B.A. University of Nebraska, Lincoln 2005; J.D. Marquette University 2008; Director of Compliance 2011.
WES MAAS, B.S. Newberry College 2000; M.S. Florida State 2001; Associate Athletic Director for Academic Services 2011.
KEVIN McKinney, B.S. University of Wyoming 1971; Senior Associate Athletic Director for External Operations 1972.

NICHOLAS POPPLEWELL, B.S. University of Idaho 2008; M.E. University of Washington 2009; Assistant Athletic Director for Marketing and Branding 2012.
BILL SPARKS, B.S. Marshall University 1979; M.S. University of Georgia 1993; Sr. Associate Athletic Director for Business Operations 1998.
BOB WALLER, B.A. California State University - Chico 1995; B.S. University of New Mexico 2000; M.S. 2002; Head Athletic Trainer 2009.
PHIL WILLE, B.A. Valparaiso University 2002; J.D. 2005; Associate Athletic Director for Event Management 2012.

Mission Statement
The mission of the University of Wyoming Department of Intercollegiate Athletics is to provide an environment in which student-athletes complete their undergraduate college education and achieve athletics success at the highest possible level. As Wyoming’s only four-year University, we are committed to offering a first-class competitive athletics program at the NCAA Division IA level that promotes the values of the state and assists in carrying out the overall University of Wyoming mission.

Core Values
• We must maintain a proper balance between academics and athletics.

* We support the student-athlete as a whole person – academically, athletically, in career development, community service, and related to personal well being. We believe college athletics develops discipline, character, and teamwork; all necessary ingredients for individual leadership and achievement.
• Our student-athletes, coaches, and staff must uphold a sense of character, honesty, and integrity as they serve as University and state ambassadors on a local, regional, and national level.
• We believe we can achieve athletic success on a regional and national level. We must accomplish this without compromising any of our other core values.
• We believe long-term athletic success increases exposure for the University’s academic and research mission and provides regional and national exposure for the state of Wyoming across the United States.
• We must operate in a fiscally sound manner. We strive to balance state, university, and self-generated resources to create a competitive and appropriate budget.
• We believe first-class facilities are an important part of our ability to compete at the highest level. We are committed to building and renovating the facilities necessary to be successful as well as maintaining the great facilities we already have.
• We are committed to recruiting Wyoming students prepared for Division IA competition.
• We are committed to being a positive campus partner. We will strive to strengthen and build relationships with students, faculty, administrators, and staff from other areas of campus.
• We are committed to being a positive city, county, and state partner. We strive to strengthen and build relationships with the Laramie City Council and the
Laramie City operating departments, Albany County government, The Wyoming Legislature, and Wyoming state elected officials and state agencies.

- We believe in empowering individuals (student-athletes, coaches, and staff) to make decisions that will lead to their success. With that privilege comes responsibility and accountability.
- We are committed to excellence in customer service. Every UW alumnus, ticket holder, fan, or contributor must be treated with the utmost respect. We strive to communicate openly and honestly with every constituent.
- We will promote good sportsmanship in all athletic endeavors.
- We are committed to fair and equitable treatment of student-athletes and staff. We will maintain an environment that promotes gender equity and embraces diversity.
- Our work environment will be positive, enjoyable, and family friendly.

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

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

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

Credit and Credit Transfer

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

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

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

Academic Advising

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

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

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

Financial Arrangements

Each UW student will pay to NOLS:

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

Each UW student will pay to the UW Outreach School

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

Approved NOLS Semester Courses

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

Application: Students Enrolled at UW

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

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

Students enrolled in the NOLS program may apply their financial aid to the cost of the program if they are enrolled as a full-time degree seeking student at the University of Wyoming.
NOLS Courses
Absoraka Backpacking
Wind River Mountaineering
Rock Climbing
Rock and River
Whitewater River Expeditions
Salmon Backpacking and Rafting
Snowboarding
Skiing
Pacific NW Backpacking
Himalaya Backpacking
Himalaya Mountaineering
Australia Backpacking
and Sea Kayaking
Australia Backpacking
Patagonia Mountaineering
Baja Sea Kayaking
Yukon Outdoor Ed-
Backpacking and River
Yukon Backpacking and River
Alaska Mountaineering
Denali Mountaineering
Alaska Outdoor Ed-Backpacking
and Sea Kayaking
Brooks Range Backpacking and River
Southwest Alaska Sea Kayaking
23 and over Prince William
Sound Alaska Sea Kayaking
Amazon Basin River Expedition
Mountain, River, Sea Kayaking,
Sailing Instructor Courses
Professional Instructor
Baja Coastal Sailing
Pacific Northwest Trip Leader
North Cascades Mountaineering
Waddington Range Mountaineering
Pacific Northwest Outdoor
Education Mountaineering
Pacific Northwest Sea
Kayaking and Sailing
Patagonia Mountaineering
Patagonia Backpacking and Fly Fishing
NOLS/Orvis Wilderness Fly Fishing
Wilderness Horsepacking
Rocky Mountain Outdoor Educator
Scandinavian Backpacking
Scandinavian Sea Kayaking
and Backpacking
Southwest Outdoor Educator
Backpacking and Rock Climbing
Southwest Lightweight Backpacking
Winter Outdoor Educator
New Zealand Backpacking
Yukon Backpacking
Yukon Backpacking and
Wilderness Canoeing
Alaska Backpacking and Packrafting
Rocky Mountain Lightweight
Backpacking
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.


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

LUIS FELIPE PEREIRA, B.S. Federal University of Minas Gerais (Brazil), 1983; M.Sc. 1985; M.Sc. New York University Courant Institute, 1988; Ph.D. SUNY-Stony Brook University, 1992; SER Professor of Mathematics 2008.

Associate Professors:

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

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


Assistant Professors:

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

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

JAYANARAYANAN SITARAMAN, B.Tech. 1998; M.S. University of Maryland at College Park 2000; Ph.D. 2003; SER Assistant Professor of Mechanical Engineering 2009.

Adjunct Faculty

Morris Argyke, Mark Balas, Carrick Eggleston, Jonathan Naughton, Mohammad Piri, K.J. Reddy

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 (ERMD) B.S. program is designed to fill this need through a combination of rigorous courses, real-world internships, and undergraduate research experiences. It is a collaborative degree with the Colleges of Arts and Sciences, Agriculture and Natural Resources, Business, Engineering and Applied Sciences, and Law as well as the Haub School of Environment and Natural Resources. The curriculum balances depth of learning with breadth of understanding to train graduates for sustained competitive success in the energy workforce at the frontiers of knowledge and for self-directed, life-long learning. Students learn to focus on continuous improvement, constant assessment and the importance of a sense of urgency and consideration of profit motive in the energy industry.

Our program emphasizes career planning and provides constant one-on-one guidance and assistance to ensure optimal workforce placement. Students have opportunities to complete internships, undergraduate research, a study abroad experience or a summer field trip. Multiple events during the year connect students to energy industry professionals.

Required Academic Performance

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

Concentrations

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

Professional Land (Landman)

Management Concentration

Suggested Course Sequence

Freshman Year: Fall

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Sophomore Year: Spring

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### School of Energy Resources

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- **ERS 4985** ..........................4
- Humanities/Diversity ..................3
- **Total Hours 17**

#### Senior Year: Fall
- **ENR 4500** ............................3
- **FIN 3250** .............................3
- **PETE 2050** ............................3
- **LAW 6800** ............................3
- **GEOG 4200** ..........................4
- **ERS 4985** .............................1
- **Total Hours 17**

#### Sophomore Year: Spring
- **MATH 2205** ..........................4
- **ACCT 1010** ..........................3
- **ERS 1300** .............................3
- **ECON 1200** ..........................3
- **GEOL 1100** ..........................4
- **Total Hours 17**

#### Sophomore Year: Fall
- **MATH 2210** ..........................4
- **ES 1060** .............................3
- **PHYS 1210** ..........................4
- **STAT 2050** ..........................4
- **PEAC 1001** ..........................1
- **Total Hours 16**

#### Junior Year: Fall
- **MATH 2200** ..........................4
- **ESS 1000** .............................2
- **** .............................
- **Total Hours 16**

#### Junior Year: Spring
- **MATH 2520** ..........................4
- **PHYS 2225** ..........................4
- **Humansities/Diversity** ...............3
- **ES 2300** .............................3
- **PETE 2050** ..........................3
- **Fine Arts** ............................3
- **Total Hours 16**

#### Junior Year: Fall
- **ERS 3100** ............................2
- **CHEM 1020** ..........................4
- **PETE 3255** ..........................3
- **PETE 4200** ..........................3
- **SOIL 3130** ..........................3
- **AGEC 3400** ..........................3
- **Total Hours 18**

#### Senior Year: Spring
- **MATH 2520** ..........................4
- **PETE 3200** ..........................3
- **CHEM 1030** ..........................4
- **GEOL 4190** ..........................3
- **AGEC 4600** ..........................3
- **MGT 3210** ..........................3
- **Total Hours 16**

#### Senior Year: Fall
- **ERS 4900** .............................3
- **DSCI 4260** ..........................3
- **ERS 4970** .............................3
- **MGT 3110** ..........................3
- **Elective** .............................3
- **Total Hours 15**

#### Sophomore Year: Fall
- **STAT 2050** ..........................4
- **PEAC 1001** ..........................4
- **Total Hours 17**

#### Sophomore Year: Spring
- **MATH 2220** ..........................4
- **PHYS 2225** ..........................4
- **Humansities/Diversity** ...............3
- **ES 2300** .............................3
- **PETE 2050** ..........................3
- **Fine Arts** ............................3
- **Total Hours 16**

#### Junior Year: Fall
- **ERS 3100** ............................2
- **CHEM 1020** ..........................4
- **PETE 3255** ..........................3
- **PETE 4200** ..........................3
- **SOIL 3130** ..........................3
- **AGEC 3400** ..........................3
- **Total Hours 18**

#### Junior Year: Spring
- **ERS 3100** ............................2
- **CHEM 1020** ..........................4
- **PETE 3255** ..........................3
- **PETE 4200** ..........................3
- **SOIL 3130** ..........................3
- **AGEC 3400** ..........................3
- **Total Hours 18**

#### Senior Year: Fall
- **MATH 2520** ..........................4
- **PETE 3200** ..........................3
- **CHEM 1030** ..........................4
- **GEOL 4190** ..........................3
- **AGEC 4600** ..........................3
- **MGT 3210** ..........................3
- **Total Hours 16**

#### Senior Year: Spring
- **ERS 4900** .............................3
- **DSCI 4260** ..........................3
- **ERS 4970** .............................3
- **MGT 3110** ..........................3
- **Total Hours 15**

#### Renewable Energy Concentration
- **School of Energy Resources**
- **ERS 4900** .............................3
- **DSCI 4260** ..........................3
- **ERS 4970** .............................3
- **REWM 4580** ..........................3
- **MGT 3110** ..........................3
- **Total Hours 15**

#### Energy Air, Land and Water Management Concentration
- **School of Energy Resources**
- **ERS 4900** .............................3
- **DSCI 4260** ..........................3
- **ERS 4970** .............................3
- **REWM 4580** ..........................3
- **MGT 3110** ..........................3
- **Total Hours 15**

#### Fossil Fuels Concentration
- **School of Energy Resources**
- **ERS 1000** .............................3
- **ESS 1000** .............................2
- **MATH 2200** ..........................4
- **ECON 1020** ..........................3
- **ENGL 1010** ..........................3
- **Total Hours 15**

#### Management Concentration
- **School of Energy Resources**
- **ERS 4900** .............................3
- **DSCI 4260** ..........................3
- **ERS 4970** .............................3
- **REWM 4580** ..........................3
- **MGT 3110** ..........................3
- **Total Hours 15**
College of Agriculture and Natural Resources

Natural Resource Economics
Rangeland Ecology and Restoration
Reclamation and Restoration Ecology
Soil Science

College of Arts and Sciences

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

College of Business

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

School of Energy Resources (ERS)

USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M2\O]).

1000. Energy and Society. 3. ([none]\O]
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. Prerequisites: none.

1300. Oil: Business, Culture, and Power. 3. ([none]\CS,G] 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 of oil-producing regions will be investigated in case studies. Cross listed with ECON 1300.

Prerequisites: none.

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)

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

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

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

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

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

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

Concurrent Major in Environment and Natural Resources

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

Minors

Students looking to create a focus for their coursework can add minors to the ERM&D program. Courses applying towards the minor must be completed with a grade of “C” or better. Visit the college or department web sites for a description of the minors.
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.
Scholarships
At least 20 entering freshmen and transfer students will receive four-year scholarships in amounts ranging from $1,000 to $4,000. Other scholarships are awarded annually to honors students, including scholarships for off-campus study. Applications are due February 1st.

Program Requirements
Once enrolled, honors students take five innovative and intellectually challenging core courses. In the freshman year, students take the two-semester Freshman Honors Colloquium which introduces the history of western culture by studying classics from various times and their contexts. In the first semester, students can fulfill the freshman writing requirement by enrolling in HP 1020 (W1); freshmen who have already met the composition requirement take HP 1151. All freshman honors students then take HP 1161 in the spring. Thereafter, students enroll in one honors course each year: Non-Western Perspectives for sophomores; Modes of Understanding for juniors; and a Senior Honors Seminar. Each of these courses fulfills graduation requirements.

The capstone senior honors project is a sustained research or creative activity through which students demonstrate what they have learned: to formulate a project independently, to develop the intellectual and creative means to complete it, and to write and speak effectively about their work.

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

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

Interested high school seniors and transfer students are encouraged to come by the Honors Program Office (Merica Hall 102) or to write to the Director, University Honors Program, Dept. 3413, 1000 University Ave., Laramie, WY 82071. The email address is honors@uwyo.edu.

Scholarships
At least 20 entering freshmen and transfer students will receive four-year scholarships in amounts ranging from $1,000 to $4,000. Other scholarships are awarded annually to honors students, including scholarships for off-campus study. Applications are due February 1st.

Program Requirements
Once enrolled, honors students take five innovative and intellectually challenging core courses. In the freshman year, students take the two-semester Freshman Honors Colloquium which introduces the history of western culture by studying classics from various times and their contexts. In the first semester, students can fulfill the freshman writing requirement by enrolling in HP 1020 (W1); freshmen who have already met the composition requirement take HP 1151. All freshman honors students then take HP 1161 in the spring. Thereafter, students enroll in one honors course each year: Non-Western Perspectives for sophomores; Modes of Understanding for juniors; and a Senior Honors Seminar. Each of these courses fulfills graduation requirements.

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

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

Successful completion of the program is indicated on transcripts and diplomas, and seniors are recognized at graduation ceremonies. Honors courses are restricted to honors program students; exceptions must be approved by the Honors Program Office.

Honors Program (HP)
USP Codes are listed in brackets by the 1991 USP code followed by the 2003 USP code (e.g. [M3Q1]).

1000. Intellectual Communities. 1. [none][I] 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. [W1WA, L] Composition course. Provides innovative writing instruction to honors students while introducing works and history of Western culture. Particularly emphasizes analytical reading and writing. Prerequisite: participation in UW Honors Program. (Offered fall semester)

1151 [1150]. Freshman Honors Colloquium I. 3. [C1, G1W, L] Studies significant works in the history of Western civilization to the Renaissance, both in their historical context and in relation to one another. For entering freshmen who have already fulfilled the WA requirement. Prerequisite: participation in the UW Honors Program. (Offered fall semester)

2020 [1160,1161]. Colloquim II. 3. [C1,WB,O] 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 [C1, G1 (none)], 2152 [C2, G1 (none)], 2153 [C3, G1 (none)] [2150]. Non-Western Perspectives. 3 (Max. 6). Explores issues central to human experience from perspectives of non-western peoples.
Topics vary from year to year. Required of UW Honors Program students. Prerequisites: sophomore standing and participation in UW Honors Program.

3151 [C1](none)], 3152 [C2](none)], 3153 [C3](none)] [3150]. Modes of Understanding. 3 (Max. 6). Introduces study of nature and grounds of knowledge, its limits and validity. Examines epistemological basis of selected areas of academic thought. Topics vary from year to year. Required of UW Honors Program students. Prerequisites: junior standing and participation in UW Honors Program.

4151 [C1](none)], 4152 [C2](none)], 4153 [C3](none)] [4150]. Senior Honor Seminar. 3 (Max. 6). Asks students to confront a complex social issue, examine it from several perspectives and take a stance on some aspect of the issue. Topics vary from year to year. Required of UW Honors Program students. Prerequisites: senior standing and participation in UW Honors Program.

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

4975. Independent Study. 1-3 (Max. 6). [(none)WC] 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. Prerequisites: none.

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 imbue intellectual self-awareness within the course goals. Several UWYO courses are part of UW learning communities and provide additional opportunities for students to engage with and work together in their cohort.

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

**UWYO (UWYO)**

1000. IC for Undeclared Students. 2. [(none)/desktop] 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. **Prerequisite:** none.

1050. Student-Athlete First Year Seminar. 1. Introduces first-year student athletes to UW. 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. **Prerequisites:** none.

1205. Student Success Services First Year Seminar. 1. [(none)/desktop] 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. [(none)desktop] 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. **Prerequisites:** none.

1600. Veterans Transition Course. 1. [(none)desktop] Provides returning veterans skills for successful transition to college life. Reviews basic tools for academic success, resources available to the returning veteran, and information on veteran related challenges. Students will write a reflective paper and also a career plan. **Prerequisites:** none. (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.
AADLAND, DAVID M., Economics and Finance
AADLAND, DAVID M., Economics and Finance
AAGARD, STEVEN, Professional Studies
ABERNETHY, ROLLIN H., Plant Sciences
ADAMOVICZ, JEFFREY J., Veterinary Sciences
ADELT, ULRICH, African American and Diaspora Studies; American Studies
ADIDHARMA, HERTANTO, Chemical and Petroleum Engineering
AGRAN, MARTIN, Professional Studies
AHERN, JAMES C., Anthropology
AIKEN, NEVIN, Political Science, Global and Area Studies
AINSWORTH, PENNE L., Accounting
ALBEKE, SHANNON, Geography and WyGISC
ALEXANDER, BRENDA M., Animal Science
ALEXANDROVA, EKATERINA, Modern and Classical Languages
ALLEN III, MYRON B., Mathematics
ALVARADO, VLADIMIR, Chemical and Petroleum Engineering
ANDERSEN, MATTHEW, Agricultural and Applied Economics
ANDERSON, ALLISON, Computer Science
ANDERSON, CAROLYN, English
ANDERSON, DAVID T., Chemistry
ANDERSON, JEFF R., Electrical and Computer Engineering
ANDERSON, NEIL E., Aerospace Studies
ANDERSON, STEPHANIE, Political Science
ANDERSON-SPRECHER, RICHARD, Statistics
ANDREWS, GERARD P., Veterinary Sciences
ANGEVINE, CHARLES, Mathematics
ANTELL, JUDITH A., American Indian Studies
ANTON, DAVID, Mathematics
ARAGON, CECILIA, Theatre and Dance, Chicoano Studies
ARNETTE, ANDREW, Management and Marketing
ARONSTEIN, SUSAN, English
ARU SAMY, NAVAMONEY, Chemistry
ASHLEY, YARONG, Global and Area Studies
BAGLEY, DAVID M., Chemical and Petroleum Engineering
BAILEY, THOMAS, Computer Science
BAKER, STACEY K., Management and Marketing
BALAS, MARK J., Electrical and Computer Engineering
BALAZ, MILAN, Chemistry
BALDWIN, NIKKI, Elementary and Early Childhood Education
BALDWIN, RONALD, Family Practice
BALLENGER, NICOLE S., Agricultural and Applied Economics
BANIC, AMY, Computer Science
BARBIER, EDWARD B., Economics and Finance
BARKER, MICHAEL G., Civil and Architectural Engineering
BARNES, DONNA A., Sociology
BARNARD, RICHARD L. IV, Aerospace Studies
BARNHART, STEVE, Music
BARRETT, STEVEN F., Electrical and Computer Engineering
BARTLOW, SANDRA M., University Libraries
BARTSCH, KAREN, Psychology
BASEL, FRANCO, Chemistry
BASHIN, JASON, English
BASTIAN, CHRISTOPHER T., Agricultural and Applied Economics
BAUMBACH, DIANE, Art
BECK, CATHERINE, Nursing
BECK, JEFFREY L., Ecosystem Science and Management
BECKER, KENT W., Professional Studies
BECKETT, ANGIE LEE, Chemistry
BEENEK, JANICE, Nursing
BELL, DAVID A., Chemical and Petroleum Engineering
BELAMY, CHERI, Nursing
BELSE, ROBERT, Music
BEN-DAVID, MERAV, Zoology and Physiology
BENHAM, TAMI, Zoology and Physiology
BERGAMAN, ANNIE, Science and Mathematics Teaching Center, Elementary/Early Childhood Education
BERGER, HAROLD L., Zoology and Physiology
BERGSTRAESSER, PAUL, English
BERNARD, JEFFREY, Pharmacy
BESSAIH, HAKIMA, Mathematics
BIASTOCK, STEVEN, Elementary/Early Childhood Education
BIEBER, STEPHEN L., Statistics
BIEHL, LAUREN R., Pharmacy
BINGHAM, BEAU, Communication and Journalism
BITTLE, MARK, Family and Consumer Sciences
BLISS, DONNA L., Social Work
BOGARD, THERESA L., Music
BOLLIGER, DORIS, Professional Studies
BOOMGAARDEN, LYNNETTE J., Law
BOSS, STEPHEN C., University Libraries
BOWLES-TERRY, MELISSA, University Libraries
BOWMAN, GRANT, Molecular Biology
BRADLEY, EDWARD B., Agricultural and Applied Economics
BRANT, JONATHAN A., Civil and Architectural Engineering
BREWER, BARRY, Management and Marketing
BRIDGEMAN, JACQUELYN, Law
BRINKMAN, DAVID J., Music
BROOMFIELD, JAMES F., Family Practice
BROSE, MICHAEL C., History
BROHERTON, MICHAEL S., Physics and Astronomy
BROUGHTON, K. SHANE, Family and Consumer Sciences
BROWN, DONNA M., Family and Consumer Sciences
BROWN, GREGORY K., Botany
BROWN, MICHAEL R., Communication and Journalism
BROWN, TRAVIS, Pharmacy
BRUCE, MARY ALICE, Professional Studies
BRUCH, DAVID C., Pharmacy
BUCHANAN, MICHELLE, Elementary/Early Childhood Education
BUCKNER, KIM, Computer Science
BUERKLE, ALEX, Botany
BURANT, TERRY, Educational Studies
Burch, JESSICA, Pharmacy
BURKE, N. DENISE, Law
BURKE, INGRID, Botany, Environment and Natural Resources, Ecosystem Science and Management
BURMAN, JOHN M., Law
BURMAN, MARY E., Nursing
BURNELL, CHERYL, Criminal Justice
BURROWS, ANDREA, Secondary Education
BUSKIRK, STEVEN W., Zoology and Physiology
BUSS, ALAN R., Elementary/Early Childhood Education
BUTLER, MARCIA L., University Libraries
BYRA, MARK, Kinesiology and Health
CALDOWELL, JAMES L., Computer Science
CALDOWELL, PENELlope, Nursing
CALKINS, KAIJSA, University Libraries
CAMERON, BRUCE A., Family and Consumer Sciences
CAMMACK, KRISTI M., Animal Science
CAMPBELL-STONE, ERIN, Geology and Geophysics
CARLING, MATT, Zoology and Physiology
CARLISLE, ASHLEY HOPE, Art
CARLSON, COURTNEY, Environment and Natural Resources
CARNES-HOLT, KARA, Professional Studies
CARRON, KEITH, Chemistry
CARTER, LUCY C., Communication Disorders
CAWLEY, R. MCGREGOR, Political Science
CHALFOUN, ANNA, Zoology and Physiology
CHAMBERLIN, MICHIELE T., Mathematics
CHAMBERLIN, SCOTT A., Elementary/Early Childhood
CHANG, AURORA, Educational Studies
CHARD, MICHAEL J., Geology and Geophysics
CHECA-GARCÍA, IRENE, Modern and Classical Languages
CHEN, PO, SER/Geology and Geophysics
CHEN, YI-LING, Global and Area Studies, Geography
CHERRINGTON, BRIAN D., Zoology and Physiology
CHO, JEASIK, Educational Studies
CHOI, NICOLE, Economics and Finance
CHRISTMAN, CAROLE SUSAN, Nursing
CLAMP, LINDA, Nursing
CLAPP, JOSHUA D., Psychology
CLAPP, TARA K., Psychology
CLARK, SUZANNE, Pharmacy
CLARKE, PAMELA N., Nursing
CLEMEN'TS, NATHAN, Mathematics
CLEMEN'TZ, MARK T., Geology and Geophysics
CLENNAN, EDWARD L., Chemistry
CLUNE, JEFF, Computer Science
COLBERG, PATRICIA J. S., Civil and Architectural Engineering
COLLIER, TIMOTHY R., Ecosystem Science and Management
COLTER, ROBERT S., Philosophy
CONNOLLY, CATHERINE, Gender and Women's Studies
CONSIDINE, TIMOTHY J., Economics and Finance
COON, DENNIS N., Mechanical Engineering
COOPER, JOSEPH T., Management and Marketing
CORBETT, TODD L., Communication Disorders
CORCORAN, ROBERT C., Chemistry
CORNISH, TODD E., Veterinary Sciences
COUPAL, ROGER, Agricultural and Applied Economics
COURSELLE, DIANE E., Law
COWIE, KAY, Professional Studies
COWLES, JOHN R., Computer Science
COYLE, LYNDA D., Communication and Journalism
CRUMPTON, JANNA M., Pharmacy
CULHANE, SCOTT, Criminal Justice
CULVER, BRUCE W., Pharmacy
CUTTS, BETHANY, Social Work
DAHNOVSKY, YURI, Physics and Astronomy
DAI, BOYI, Kinesiology and Health
DAMBEKALNS, LYDIA, Secondary Education
DANISH, JOHN, Electrical and Computer Engineering
DAY, MITCHELL, Army ROTC
DEACON, BRETT J., Psychology
DECHERT, CHRISTIANE, Communication Disorders
DECKERT, JENNIFER, Theatre and Dance
DELANEY, JAMES M., Law
DELENBACK, PAUL A., Mechanical Engineering
DeLOZIER, LAURA, Modern and Classical Languages
DeNAPOLI, ANTOINETTE, Religious Studies
DENNEY, COLLEEN, Gender and Women's Studies
DENZER, ANTHONY S., Civil and Architectural Engineering
DESHLER, TERRY, Atmospheric Science
DEWEY, JANET, Geology and Geophysics
DEWEY, SUSAN, Gender and Women's Studies
DHEKNEY, SADANAND, Plant Sciences
DIAZ-SWearingen, CONSTANCE A., Nursing
DILLON, MICHAEL, Zoology and Physiology
DOLAN, CHARLES W., Civil and Architectural Engineering
DOLE-IZZO, ELIZABETH, Social Work
DOLENCE, E. KURT, Pharmacy
DOMENECH, CONXITA, Modern and Classical Languages
DONAHUE, DEBRA L., Law,
DORST, JOHN D., American Studies
DOUGLAS, CRAIG C., SER/Mathematics
DOWNS, WILLIAM MISSOURI, Theatre and Dance
DRIESE, KENNETH, Botany
DRUMMOND, KENT G., Management and Marketing
DUAN, DONGLIANG, Electrical and Computer Engineering
DUNCAN, HEATHER, Professional Studies
DUEKER, KENNETH G., Geology and Geophysics
DUFF, MICHAEL, Law
DUTTA, DEBASHIS, Chemistry
EDGAR, THOMAS V., Civil and Architectural Engineering
EGGLESTON, CARRICK M., Geology and Geophysics
EHMKE, COLE, Agricultural and Applied Economics
EHMKE, MARIAH, Agricultural and Applied Economics
ELLBOGEN, MARTIN JR., Family Practice
EMASHOWSKI, MARY, Pharmacy
EMBRREE, JOY K., Accounting
ERIKSON, ROBERT, Civil and Architectural Engineering
ESTES, DAVID, Psychology
ETTEM A, ROB, Civil and Architectural Engineering
EVERS, JACK, Chemical and Petroleum Engineering
EWERS, BRENT E., Botany
EWIG, RICHARD G., American Heritage Center
FADIL, JOHN M., JR, Music
FALL, TYLER S., Religious Studies
FAN, MAO HONG, Chemical and Petroleum Engineering
FARRELL, MARY M., University Libraries
FAY, DAVID, Molecular Biology
FELDMAN, STEPHEN M., Law
FERRÉ-PIKAL, EVA S., Electrical and Computer Engineering
FERTIG, RAY, Mechanical Engineering
FINNOFF, DAVID C., Economics and Finance
FISHER, RICK, English
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