

**University of Idaho - Idaho Falls**  
**Proposed Three-Year Plan of Courses**  
**Updated as of August 3, 2004**

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Subject	Course	Title	Spr 05	Sum 05	Fall 05	Spr 06	Sum 06	Fall 06	Spr 07	Sum 07	Fall 07
<b>ACCOUNTING (ACCT)</b>											
ACCT	582	Cost Management Systems				X					
<b>ADULT &amp; ORGANIZATIONAL LEARNING (ADOL)</b>											
ADOL	501	Advancing Professional Life in Higher Education				X					
ADOL	501	Eval & Assess/Student Lrng in Higher Educ			X						
ADOL	501	Building Community/Lrng in Higher Education									
ADOL	504	ST:Instructional Technology/Clstrm Applications				X					
ADOL	526	Instructional Design and Curriculum		X							
ADOL	573	Foundations of Adult Education									
ADOL	574	Characteristics of the Adult Learner			X						
ADOL	575	Strategies for Teaching Adults				X					
ADOL	576	Communications Skills for Adults/Diverse Wrld	X								
ADOL	581	Theory, Practice & Challenges of Leadership		X							
ADOL	583	Organizational Leadership (McCall)					X				
ADOL	591	Graduate Seminar I			X			X			
ADOL	597	Practicum	X	X	X	X	X	X	X	X	X
ADOL	598	Internship	X	X	X	X	X	X	X	X	X
ADOL	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
Enrollment open to admitted, doctoral students in Education											
ADOL	612	Doctoral Seminar II	X			X			X		
Enrollment open to admitted, doctoral students in Education											
ADOL	613	Doctoral Seminar III	X		X	X		X	X		
Enrollment open to admitted, doctoral students in Education											
ADOL	668	Writing for Publication				X					
Enrollment open to admitted, doctoral students in Education											
ADOL	689	Critical Thinking		X							
Enrollment open to admitted, doctoral students in Education											
<b>AGRICULTURAL ECONOMICS (AGEC)</b>											
AGEC	301	Agricultural Economics I			X						
AGEC	302	Agricultural Economics II	X			X					
AGEC	356	Ag Programs & Policies			X						

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AGEC	361	Farm & Natural Resource Appraisal	X			X					
AGEC	410	Exploring Idaho Public Policy Making Process	X			X					
AGEC	411	World of International Agribusiness			X						
AGEC	414	Financial Analysis of Agricultural Firms									
AGEC	415	Entrepreneurial Skills/Agriculture Management			X						
AGEC	416	Risk Management in Agribusiness Firms	X			X					
AGEC	489	Understanding Futures and Options Markets	X			X					
AGEC	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
AGEC	509	Mathematical Economics									
AGEC	525	Econometrics	X								
AGEC	528	Advance Production Economics				X					
<b>AGRICULTURAL SYSTEMS MANAGEMENT (ASM)</b>											
ASM	315	Irrigation Sys & Water Management									
<b>BIOLOGY (BIOL)</b>											
BIOL	531	Environmental Science & Pollutants (BIOS 687)									
<b>BIOLOGICAL &amp; AGRICULTURAL ENGINEERING (BAE)</b>											
BAE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
BAE	599	Research	X	X	X	X	X	X	X	X	X
<b>BUSINESS (BUS)</b>											
BUS	456	Quality Management (also 500 level)			X			X			
BUS	413	Ldrshp & Org Behavior (also 500 level)	X			X			X		
BUS	414	Entrepreneurship (also 500 level)	X			X			X		
BUS	490	Strategic Management (also 500 level)			X			X			
BUS	504	Quality Management (also 400 level)			X			X			
BUS	504	Ldrshp & Org Behavior (also 400 level)	X			X			X		
BUS	504	Entrepreneurship (also 400 level)	X			X			X		
BUS	504	Strategic Management (also 400 level)			X			X			
<b>CHEMICAL ENGINEERING (CHE)</b>											
CHE	223	Material & Energy Balances			X			X			X
CHE	470	Hazardous Waste Management (also 500 level)			X						X

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CHE	475	Air Pollution Control (also 500 level)	X			X			X		
CHE	480	Engr Risk As/Haz Waste Eval (also 500 level)						X			
CHE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
CHE	502	Comprehensive Examination	X	X	X	X	X	X	X	X	X
CHE	504	Electrochemical Engineering				X					
CHE	504	Hydrogen			X			X			X
CHE	504	Nuclear Fuel Disposition & Management						X			
CHE	504	Nuclear Chemical Engineering			X						X
CHE	505	PE Exam Refresher	X	X	X	X	X	X	X	X	X
CHE	515	Transport Phenomena (ME 515)	X			X			X		
CHE	525	Advanced Heat Transfer (ME 525)				X					
CHE	527	Thermodynamics							X		
CHE	529	Chemical Engineering Kinetics			X						X
CHE	541	Chemical Engineering Analysis I	X					X			
CHE	545	Mass Transfer Operations I						X			
CHE	546	Mass Transfer Operations II	X						X		
CHE	570	Hazardous Waste Management (also 400 level)			X						X
CHE	571	Advanced Plant Design				X					
CHE	575	Air Pollution Control (also 400 level)	X			X			X		
CHE	578	Treatment of Hazardous Chemical Waste				X					
CHE	579	Hazardous Waste Site Remediation Design	X						X		
CHE	580	Engr Risk As/Haz Waste Eval (also 400 level)						X			
CHE	581	Haz Waste Mgmt Seminar (ENVS 501)	X		X	X		X	X		X
CHE	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>CHEMISTRY (CHEM)</b>											
CHEM	305	Physical Chemistry			X						
CHEM	306	Physical Chemistry				X					
CHEM	463	Inorganic Chemistry						X			
CHEM	468	Organometallic Chemistry				X					
CHEM	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
CHEM	550	Radioanalytical Chemistry	X						X		

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CHEM	568	Organomettalic Chemistry				X					
CHEM	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>CIVIL ENGINEERING (CE)</b>											
CE	402	Applied Numerical Methods for Engineers	V			V			V		
CE	420	Fluid Dynamics (ME 420)	V			V			V		
CE	421	Engineering Hydrology	V			V			V		
CE	428	Open Channel Hydraulics			V			V			
CE	433	Water Quality Management				X/V					
CE	441	Reinforced Concrete Design	V			V					
CE	444	Steel Design			V			V			
CE	445	Matrix Structural Analysis						V			
CE	482	Project Engineering			X				X		
CE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
CE	502	Comprehensive Examination	X	X	X	X	X	X	X	X	X
CE	504	ST:Computational Hydrology				V					
CE	515	Transport Phenomena (CE 515)	X			X			X		
CE	519	Fluid Transients (ME 519)				V					
CE	520	Fluid Dynamics (ME 520)	V			V			X		
CE	523	Water Resources Systems	X/V						X/V		
CE	526	Aquatic Habitat Modeling	V						V		
CE	528	Stochastic Hydrology	X/V			X/V			X/V		
CE	533	Water Quality Management				X/V					
CE	534	Environmental Engr Unit Processes			X/V						X/V
CE	539	Advanced Mechanics of Materials (ME 510)	V						V		
CE	540	Continuum Mechanics (ME 540)	V		X	V		X	V		
CE	541	Reliability of Engineering Systems (ME 541)	V						V		
CE	542	Advanced Design of Structures				V					
CE	543	Dynamics of Structures			V						
CE	545	Matrix Structural Analysis						V			
CE	546	Finite Element Analysis (ME 549)	V		X	V		X	V		
CE	547	Advanced Reinforced Concrete	V						V		



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CS	381	Software Engineering I			X			X			
CS	382	Software Engineering II							X		
CS	386	Derivational Programming									
CS	398	Computer Science Cooperative Internship									
CS	401	Contemporary Issues in Computer Science			X			X			
CS	404	Special Topics	X		X	X		X	X		
CS	413	Concurrent Systems (also 500 level)									
CS	414	Object-Oriented Design			X						
CS	415	Comp Biol:Sequence An (also 500 level)									
CS	420	Data Communication Sys (also 500 level)	X			X					
CS	423	Network Security (also 500 level)									
CS	435	Found/Mod Prg Methods (also 500 level)									
CS	442	Computer Security Concepts (also 500 level)									
CS	445	Ssystems Program Design	X			X			X		
CS	448	Survivable Sys & Networks (also 500 level)									
CS	449	Fault-Tolerant Systems (also 500 level)									
CS	461	Advanced Database Sys (also 500 level)	X			X					
CS	470	Artificial Intelligence (also 500 level)									
CS	472	Evolutionary Computation (also 500 level)									
CS	480	Design - Individual Project			X			X			
CS	481	Design - Group Project	X			X					
CS	481	Senior Capstone Design							X		
481 will have a title change											
CS	482	Software Project Management (also 500 level)									
CS	484	Software Quality Assurance (also 500 level)									
CS	485	Software Process Management (also 500 level)									
CS	486	Software Specification (also 500 level)									
CS	385	Theory of Computation			X			X			
490 has changed to 385. Contact your advisor if you have questions.											
CS	395	Analysis of Algorithms	X			X			X		
495 has changed to 395. Contact your advisor if you have questions.											

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CS	496	Computational Complexity (also 500 level)									
CS	500	Master's Research & Thesis	X		X	X		X	X		
CS	501	Seminar			X			X			
CS	504	Special Topics	X		X	X		X	X		
CS	507	Fundamentals of Research									
CS	510	Theory of Programming Languages									
CS	513	Concurrent Systems (also 400 level)									
CS	515	Comp Biol:Sequence An (also 400 level)									
CS	520	Data Communication Sys (also 400 level)	X			X			X		
CS	521	Computer Network Design									
CS	523	Network Security (also 400 level)									
CS	535	Found/Mod Prg Methods (also 400 level)									
CS	541	Operating Systems			X			X			
CS	542	Computer Security Concepts (also 400 level)									
CS	548	Survivable Sys & Networks (also 400 level)									
CS	549	Fault-Tolerant Systems (also 400 level)									
CS	551	Advanced Computer Architecture									
CS	561	Data Base Mgmt Sys (also 400 level)	X			X					
CS	570	Artificial Intelligence (also 400 level)									
CS	572	Evolutionary Computation (also 400 level)									
CS	580	Graduate Project									
CS	581	Software Engineering Analysis									
CS	582	Software Project Management (also 400 level)									
CS	582	Software Engineering Measurement									
CS	584	Software Quality Assurance (also 400 level)									
CS	585	Software Process Management (also 400 level)									
CS	586	Software Specification (also 400 level)									
CS	590	Computability & Complexity									
CS	596	Computational Complexity (also 400 level)									
CS	600	Doctoral Research & Dissertation	X		X	X		X	X		

**EDUCATION (ED)**

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ED	580	Foundations of Education Research									
ED	582	Intro to Quantitative Research		X							
ED	588	Intro to Qualitative Research	X								
ED	684	Intermediate Quantitative Analysis in Education			X						
Enrollment open to admitted, doctoral students in Education											
ED	687	Advanced Quantitative Research				X					
Enrollment open to admitted, doctoral students in Education											
ED	689	Designing & Conducting Qualitative Research						X			
Enrollment open to admitted, doctoral students in Education											
ED	690	Data Analysis & Reporting Qualitative Research	X						X		
Enrollment open to admitted, doctoral students in Education											
ED	686	Planning & Design of Ed Research	X			X			X		
Enrollment open to admitted, doctoral students in Education											
<b>ELECTRICAL ENGINEERING (EE)</b>											
EE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
<b>ENGINEERING MANAGEMENT (EM)</b>											
EM	404	Quality Engineering	X						X		
EM	484	Writing Winning Proposals (also 500 level)				X					
EM	486	Software Assisted Project Management						X			
EM	504	Quality Engineering	X						X		
EM	510	Fundamentals of Engineering Management			X			X			
EM	511	Legal Environment for Engineers	X						X		
EM	582	Advanced Topics in Project Management				X					
EM	584	Writing Winning Proposals (also 400 level)				X					
EM	599	Research: Master's Project	X	X	X	X	X	X	X	X	X
<b>ENGINEERING GENERAL (ENGR)</b>											
ENGR	210	Engineering Statics			V			V			
ENGR	220	Engineering Dynamics				V			V		
ENGR	320	Engineering Thermo & Heat Transfer									
ENGR	335	Engineering Fluid Mechanics	V		X	V		X	V		
ENGR	350	Mechanics of Materials			V				V		

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<b>ENVIRONMENTAL SCIENCE (ENVS)</b>											
ENVS	101	Intro to Environmental Science						X			
ENVS	504	Research Methods in Environmental Science	X								
ENVS	102	Field Activities in Environmental Science						X			
ENVS	200	Sophomore Seminar	X								
ENVS	400	Senior Seminar									
ENVS	428	Pollution Prevention	X						X		
ENVS	429	Environmental Auditing			X			X			
ENVS	470	Surv of Haz Wste Mgmt Prob (also ISU)									
ENVS	471	Wste Treat Tech (also ISU)									
ENVS	472	Remed Technol & Proj Imp (also ISU)									
ENVS	479	Intro to Environmental Regs (also ITED)			X			X			
ENVS	482	Natural Resource Policy & Law (also 500 level)				X					
ENVS	497	Senior Research & Thesis	X	X	X	X	X	X	X	X	X
ENVS	498	Internship									
ENVS	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
ENVS	501	SEM:Policy & Law	X			X			X		
ENVS	501	SEM:Haz Wste Mgmt (also CHE)									
ENVS	502	DS:Comprehensive Examination	X	X	X	X	X	X	X	X	X
ENVS	541	Samp & Analysis of Envir Contaminants			X			X			
ENVS	579	Intro to Environmental Regs (also ITED)			X			X			
ENVS	580	Enviromental Law & Regulations	X			X			X		
ENVS	581	Applications of Environmental Regulations	X			X			X		
ENVS	582	Natural Resource Policy & Law (also 400 level)				X					
ENVS	599	Research	X	X	X	X	X	X	X	X	X
ENVS	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>GEOLOGICAL ENGINEERING (GEOE)</b>											
GEOE	407	Rock Mechanics			V			V			V
GEOE	428	Geostatistics			V			V			V
GEOE	465	Excavation & Materials Handling				V					
GEOE	517	Tunnel Design & Construction	V						V		

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GEOE	535	Seepage & Earth Dams (CE 563)	V						V		
GEOE	536	Slope Stability Analysis						V			
<b>GEOLOGY (GEOL)</b>											
GEOL	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>HYDROLOGY (HYDR)</b>											
HYDR	599	Research	X	X	X	X	X	X	X	X	X
<b>INTERDISCIPLINARY STUDIES (INTR)</b>											
INTR	502	DS:Comprehensive Examination	X	X	X	X	X	X	X	X	X
INTR	599	Research	X	X	X	X	X	X	X	X	X
<b>MATERIALS SCIENCE &amp; ENGINEERING (MSE)</b>											
MSE	201	Elem of Materials Science (MET 201)	X			X			X		
MSE	308	Metallurgical Thermodynamics (MET 308)	X		X						
MSE	404	ST:Physical Metallurgy I (MET 404)			X						
MSE	404	ST:Physical Metallurgy II (MET 404)				X					
MSE	412	Mechanical Metallurgy (MET 412)							X		
MSE	499	DS:Thermodynamics of Mtls Sci (MET 499)	X								
MSE	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
MSE	504	ST:Superalloys (MET 504)			X						
MSE	504	ST:Advanced Metallurgy I (MET 504)				X			X		
MSE	504	ST:Advanced Metallurgy II (MET 504)									
MSE	504	ST:Theory of Dislocations (MET 504)						X			
MSE	504	ST:Condensed Matter of Mtrls (MET 504)						X			
MSE	518	Advanced Mechanical Metallurgy (MET 518)							X		
MSE	527	Ceramic Materials (MET 527)									
MSE	534	Radiation Effects in Materials (MET 534)			X						
MSE	538	Corrosion in Metallurgy (MET 538)				X					
MSE	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>MATHEMATICS (MATH)</b>											
MATH	176	Discrete Math	X		X	X		X	X		X
MATH	330	Linear Algebra				X					

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<b>MECHANICAL ENGINEERING (ME)</b>											
ME	341	Intermediate Mechanics of Materials									
ME	345	Heat Transfer			V			V			
ME	410	Production Engineering				X					
ME	412	Gas Dynamics	X/V			X/V			X/V		
ME	413	Engineering Acoustics	V						V		
ME	414	HVAC Systems			V						
ME	415	Materials Selection & Processing							V		
ME	417	Turbomachinery			X/V						
ME	420	Fluid Dynamics (CE 420)	V			V			V		
ME	422	Applied Thermodynamics			V						
ME	443	Analysis of Thermal Energy Systems				V					
ME	444	Air Conditioning Engineering	V						V		
ME	461	Fracture Mechanics	V						V		
ME	472	Mechanical Vibrations	V			X			V		
ME	481	Control Systems			V			V			
ME	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
ME	502	DS:Comprehensive Examination	X	X	X	X	X	X	X	X	X
ME	505	PD:PE Exam Review	X	X	X	X	X	X	X	X	X
ME	508	Mechanics of Plates & Shells			V						
ME	513	Engineering Acoustics	V						V		
ME	514	HVAC Systems			V						
ME	515	Transport Phenomena (CE 515)	X			X			X		
ME	517	Turbomachinery			X/V						
ME	519	Fluid Transients (CE 519)				V					
ME	520	Fluid Dynamics (CE 520)	V			V			V		
ME	525	Advanced Heat Transfer (CHE 525)				X					
ME	526	Statistical Thermodynamics				X/V					
ME	527	Thermodynamics	X/V						X/V		
ME	529	Combustion			V						
ME	524	Mechanics of Composite Materials						V			

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ME	535	Failure of Structural Materials				V					
ME	539	Advanced Mechanics of Materials (CE 510)	V						V		
ME	540	Continuum Mechanics (CE 540)	V		X	V		X	V		
ME	541	Mechanical Engineering Analysis			X/V			X/V			
ME	544	Conduction Heat Transfer						v			
ME	546	Convective Heat Transfer			V						
ME	547	Thermal Radiation Processes				V					
ME	548	Elasticity (CE 548)				V					
ME	549	Finite Element Analysis (CE 546))			X	V		X	V		
ME	573	Acoustic Waves in Elastic Solids							V		
ME	575	Optimal Control Theory							V		
ME	578	Neural Network Design			V						
ME	580	Linear System Theory									
ME	581	Fuzzy Logic Control Systems									
ME	583	Reliability of Engineering Systems (CE 541)	V						V		
ME	600	Doctoral Research & Dissertation	X	X	X	X	X	X	X	X	X
<b>METALLURGY (MET)</b>											
MET	201	Elem of Materials Science (MSE 201)	X			X				X	
MET	308	Metallurgical Thermodynamics (MSE 308)	X		X						
MET	404	ST:Physical Metallurgy I (MSE 404)			X						
MET	404	ST:Physical Metallurgy II (MSE 404)				X					
MET	412	Mechanical Metallurgy (MSE 412)							X		
MET	499	DS:Thermodynamics of Mtls Sci (MSE 499)	X								
MET	500	Master's Research & Thesis	X	X	X	X	X	X	X	X	X
MET	504	ST:Superalloys (MSE 504)									
MET	504	ST:Advanced Metallurgy I (MSE 504)			X						
MET	504	ST:Advanced Metallurgy II (MSE 504)				X					
MET	504	ST:Theory of Dislocations (MSE 504)						X			
MET	504	ST:Condensed Matter of Mtrls (MSE 504)						X			
MET	518	Advanced Mechanical Metallurgy (MSE 518)							X		
MET	527	Ceramic Materials (MSE 527)							X		





