

Course Description Catalog  
Ace Transcript Service

Organization: American Fisheries Society

Sponsor code: AFS

Location code: 001

**Registrar:** Gail Goldberg

Telephone: 301-897-8616 x230

5410 Grosvenor Lane, Suite 110

Bethesda, MD 20814

Email: [ggoldberg@fisheries.org](mailto:ggoldberg@fisheries.org)

Ace Course Number	Version	Dates	Title/Credit/Description
	1	Eff: 9/10/2006	<p><b>LEADERSHIP REGARDLESS OF POSITION</b></p> <p>0.6 CEU (6 hours)</p> <p>PARTICIPANTS WILL BE ABLE TO IDENTIFY THE MOST IMPORTANT ATTRIBUTES OF EFFECTIVE LEADERSHIP IN NATURAL RESOURCE ORGANIZATIONS. PARTICIPANTS WILL IDENTIFY THE CHARACTERISTICS OF THEIR PERSONALITIES AND APPROACHES TO WORK THAT ENHANCE OR INHIBIT THEIR ABILITY TO LEAD. PARTICIPANTS WILL DEVELOP STRATEGIES TO ENHANCE THEIR INFLUENCE IN ORGANIZATIONS THAT ARE APPROPRIATE TO ANY POSITION WITHIN THE ORGANIZATIONS.</p>
0001	1	Eff: 7/1/1988	<p><b>FISH MARKING TECHNIQUES WORKSHOP</b></p> <p>3.2 CEU</p> <p>A SYNTHESIS OF CURRENT FISH MARKING TECHNOLOGIES, EXPERIMENTAL DESIGN, &amp; ANALYSIS OF FISH POPULATIONS FOR FIELD APPLICATION.</p>
0002	1	Eff: 9/11/1988 - 10/29/1989	<p><b>FISH BIOENERGETICS: A COMPUTER MODELING APPROACH</b></p> <p>1.5 CEU</p> <p>USE OF MICROCOMPUTER MODEL OF FISH BIOENERGETICS TO ADDRESS QUESTIONS OF FISH GROWTH, CONSUMPTION, &amp; PRODUCTION. DISCUSSION OF DATA REQUIREMENTS, DATA FILES, MODEL RUNS, &amp; ANALYSIS OF OUTPUT.</p>
0002	2	Eff: 10/30/1989	<p><b>FISH BIOENERGETICS: A COMPUTER MODELING APPROACH</b></p> <p>1.5 CEU</p> <p>USE OF MICROCOMPUTER MODEL OF FISH BIOENERGETICS TO ADDRESS QUESTIONS OF FISH GROWTH, CONSUMPTION, AND PRODUCTION. DISCUSSION OF DATA REQUIREMENTS, DATA FILES, MODEL RUNS AND ANALYSIS OF OUTPUT.</p>

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0003	1	Eff: 1/1/1988	<p><b>COMMUNITY DYNAMICS WORKSHOP</b> 2.0 CEU COURSE WILL UPDATE FISHERIES BIOLOGISTS IN THE GENERAL AREA OF COMMUNITY ECOLOGY AS IT RELATES TO FISHERIES ISSUES AND PROBLEMS. LECTURE, DISCUSSION, COMPUTER DEMO.</p>
0004	1	Eff: 4/27/1989	<p><b>ELECTRO-FISHING-STATE OF THE ART</b> 2.0 CEU OVERVIEW OF THE THEORETICAL AND APPLIED BASIS OF ELECTROFISHING WITH EMPHASIS ON TECHNIQUE TO SAFELY USE ELECTROSHOCKING IN DIFFERENT SITUATIONS.</p>
0005	1	Eff: 9/13/1989	<p><b>INSTREAM FLOW METHODOLOGIES IN MEDWESTERN U.S.</b> 1.3 CEU PRESENTATION OF INSTREAM FLOW METHODS FOLLOWED BY SMALL GROUP EXERCISES AND CASE STUDIES TO ANALYZE SITUATIONS FROM PROBLEM TO SOLUTION.</p>
0006	1	Eff: 9/14/1989	<p><b>ANALYZING AND MANAGING USER-GROUP CONFLICTS</b> 1.0 CEU WORKSHOP ADDRESSES MANAGEMENT SKILLS RELEVANT TO HANDLING USER-GROUP CONFLICTS, USER PARTICIPATION IN MANAGEMENT AND CONFLICT RESOLUTION.</p>
0007	1	Eff: 9/3/1989	<p><b>USING SOCIOECONOMICS IN THE FISHERIES POLICY PROC</b> 1.5 CEU BASIC LEGAL, ADMIN, AND SCIENTIFIC ISSUES IN THE USE OF SOCIOECONOMIC DATA AND ANALYSIS IN THE FISHERY POLICY AND MANAGEMENT PROCESS.</p>
0008	1	Eff: 12/3/1989	<p><b>FISHERY ANALYSIS WITH MS-DOS MICROCOMPUTERS</b> 1.6 CEU TEACHES FISHERY MANAGERS, ADMINISTRATORS, AND EDUCATORS TO USE MICROCOMPUTERS MORE EFFECTIVELY IN HANDLING AND ANALYSIS OF DATA, DEVELOPMENT OF GRAPHICS AND PREPARATION OF REPORTS.</p>

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0009	1	Eff: 1/12/1990	<p><b>STATISTICS IN FISHERIES MANAGEMENT AND RESEARCH</b> 3.3 CEU INTRODUCTION TO STATISTICAL METHODS FOR THOSE WHO HAVE NOT HAD A RECENT COURSE IN STATISTICAL METHODS AND AS A REFRESHER FOR THOSE FOR WHOM IT-HAS BEEN A LONG TIME.</p>
0010	1	Eff: 3/31/1990	<p><b>CREEL AND ANGLER SURVEYS IN FISHERIES MANAGEMENT</b> 3.2 CEU DESIGNED TO FULFILL A NEED TO BRING TOGETHER AND DISTILL INFORMATION ON SURVEY TECHNIQUES FOR FISHERIES MANAGEMENT. SYMPOSIUM WILL INCREASE ABILITIES TO OBTAIN VIABLE SURVEY INFORMATION.</p>
0011	1	Eff: 1/17/1991	<p><b>STOCK AND CONDITION INDICES IN FISH RESEARCH</b> 2.2 CEU AN OVERVIEW OF CURRENT IDEAS AND ALTERNATIVES IN THE USE OF STOCK AND CONDITION INDICES IN FISHERIES MANAGEMENT AND RESEARCH.</p>
0012	1	Eff: 12/11/1991	<p><b>GROWTH ASSESSMENT FOR FISHERIES RESEARCH</b> 1.8 CEU AN EXAMINATION OF RECENT DEVELOPMENTS IN STATISTICAL MODELLING DESCRIBING FISH GROWTH.</p>
0013	1	Eff: 5/4/1992	<p><b>INTRODUCTORY WETLANDS SCIENCE</b> .8 CEU INTRODUCTION TO THE PRINCIPLES OF WETLANDS MANAGEMENT, ASSESSMENT, MITIGATION AND REGULATION.</p>
0014	1	Eff: 1/24/1992	<p><b>COMMUNITY ECOLOGY CONCEPTS IN FISH MGT/RESEARCH</b> 2.0 CEU THE APPLICATION OF BIOENERGETICS MODELS TO FISHERIES; PRINCIPLES OF COMMUNITY AND TROPHIC ECOLOGY IN FISHERIES.</p>

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0018	1	Eff: 8/7/1995	<b>FISH GENETICS</b> 3.6 CEU BASIC PRINCIPLES OF POPULATION GENETICS. SUCCESSFUL RESTORATION/CREATION OF FISHERY RESOURCES.
0023	1	Eff: 9/13/1993	<b>HOW TO TESTIFY AS AN EXPERT WITNESS</b> 4.0 CEU OVERVIEW OF US COURT SYSTEM AND ROLE AND QUALIFICATIONS OF EXPERT WITNESS.
0024	1	Eff: 1/6/1993	<b>COMPUTER APPLICATIONS OF MULTI-VARIATE STATISTICS FOR FISH BIOLOGY</b> 2.0 CEU MULTIVARIATE ANALYSIS AND STATISTICS APPLICATION TO FISHERY DATA.
0025	1	Eff: 6/16/1993	<b>LARVAL FISH WORKSHOP</b> 1.5 CEU TECHNIQUES AND GEAR FOR IDENTIFICATION OF LARVAL FISH.
0026	1	Eff: 4/1/1993	<b>FISHERY STOCK ASSESSMENT</b> 2.0 CEU INTRODUCTION TO MODELS FOR FISHERY STOCK ASSESSMENTS.
0027	1	Eff: 4/18/1993	<b>ANGLER SURVEY TECHNIQUES</b> .7 CEU INTRODUCTION OF NEW CONCEPTS IN ANGLER SURVEY METHODOLOGIES.
0028	1	Eff: 8/13/1993	<b>WRITING FOR SCIENTIFIC/ADMINISTRATIVE AUDIENCES</b> .6 CEU ANALYZING WRITING PROBLEMS ORGANIZING WRITING SELF REVIEW DRAFT AND GROUP REVIEWS

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0029	1	Eff: 8/28/1993	<p><b>FISH HEALTH AND CONDITION ASSESSMENT WORKSHOP</b> 1.0 CEU CONCEPTS OF STRESS AND FISH HEALTH MONITORING FEATURES APPROACH TO AUTOPSY SYSTEM. LAB INSTRUCTIONS AND DEMONSTRATIONS COMPUTER DATA ANALYSIS INTERPRETATION.</p>
0030	1	Eff: 8/26/1993	<p><b>WATERSHED &amp; STREAM RESTORATION</b> 1.2 CEU INTEGRATED WATERSHED &amp; STREAM RESTORATION CONCEPTS OF INTEGRATED RESTORATION PLANNING CONDUCTING FULL WATERSHED ANALYSIS GEORGRAPHIC INFORMATION SYSTEMS</p>
0031	1	Eff: 8/19/1993	<p><b>BREEDING PLANS FOR MANAGED FISH POPULATIONS</b> .8 CEU EFFECTIVE POPULATION SIZE GENETIC CONSEQUENCES/DIFFERENT MATING SYSTEMS BREEDING PLANS DEVELOPMENT STOCK, RECONSTRUCTION OF POP., MAINTENANCE</p>
0032	1	Eff: 3/15/1994	<p><b>FLUVIAL PROCESS IN STREAM HABITAT MANAGEMENT</b> 2.1 CEU INTRODUCTION TO HOLISTIC MANAGEMENT HYDROLOGY, GEOMORPHOLOGY AND WATERSHED FLUVIAL PROCESSES; CHANNEL MORPHOLOGY &amp; STM MGT. MGT TECHNIQUES WITH INDICATIONS.</p>
0033	1	Eff: 5/1/1994	<p><b>UNDERSTANDING &amp; RESPONDING TO PUBLIC CONCERNS</b> .7 CEU INTRO TO CONCEPTS OF HUMAN DIMENSIONS SCIENCE MARKETING TO FISHERIES AND WILDLIFE PROFESSIONALS TOOLS NEEDED TO ACCURATELY MEASURE OPIN. &amp; ATT.</p>
0034	1	Eff: 6/21/1994	<p><b>PRINCIPLES AND TECHNIQUES OF ELECTROFISHING</b> 2.0 CEU BASIC ELECTRICAL PRINCIPLES AS APPLIED TO ELECTROFISHING; ELECTROFISHING SYSTEMS; AND EMPHASIZES THE CAPABILITIES AND LIMITATIONS OF ELECTROFISHING</p>

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0035	1	Eff: 7/27/1994	<p><b>FISH HEALTH AND CONDITION ASSESSMENT WORKSHOP</b> 7.5 CEU USING ANATOMICAL AND ORGANISMAL INDICATORS TO MONITOR THE HEALTH AND CONDITION OF FISH POPULATIONS.</p>
0036	1	Eff: 8/18/1994	<p><b>WATER SAFETY - RESCUE FOR FISHERIES PERSONNEL</b> 4.0 CEU TRAINING AND IMPLEMENTATION OF SAFETY TECHNIQUES UNDER "REAL LIFE" IN-STREAM CONDITIONS.</p>
0037	1	Eff: 10/1/1994	<p><b>FISHERY SURVEY AND EXPERIMENTAL DESIGN</b> .4 CEU SELECTION OF AN APPROPRIATE SAMPLING PLAN SPECIAL METHODS OF ANALYSIS FOR FIXED-STATION SAMPSAMPLE SIZE SELECTION WHEN AND HOW TO USE STRATIFIED SAMPLING</p>
0038	1	Eff: 9/16/1994	<p><b>EFFECTIVE COMMUNICATION SKILLS</b> .4 CEU BASIC SKILLS OF SPEAKING TO THE PUBLIC DEVELOPING EFFECTIVE VISUAL AIDS HOW TO AVOID COMMON BARRIERS TO UNDERSTANDING</p>
0039	1	Eff: 10/25/1994	<p><b>INTRO TO BIostatISTICS FOR FISHERY WORKERS</b> 1.5 CEU KNOWLEDGE OF STATISTICAL CONCEPTS AND TESTS ABLE TO CONDUCT STATISTICAL TEST ON OWN DATA SETS; DEVELOP SOLUTIONS FOR OWN MANAGEMENT SITUATIONS.</p>
0040	1	Eff: 4/7/1995	<p><b>GENETIC PRINC &amp; TECHNIQUES FOR FISHERIES RESOURCES</b> 1.6 CEU INTRO TO BASIC PRINCIPLES, STOCK IDENTIFICATION, GENETIC GUIDELINES FOR HATCHERIES/TRANSPLANTATIONS MOLECULAR GENETIC TOOLS AND APPLICATIONS AND EFFECTS OF GENETICALLY MODIFIED ORGANISMS.</p>

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0042	1	Eff: 8/10/1995	<p><b>AGE, GROWTH, AND PRODUCTION OF FISHES</b> 1.0 CEU LEARN TO INTERPRET AGING STRUCTURES AND USE DATA IN FISH GROWTH SOFTWARE. COMPARE AND CONTRAST METHODS OF ESTIMATING PRODUCTION FROM AGING AND GROWTH DATA.</p>
0043	1	Eff: 9/1/1995	<p><b>GPS/GIS LEVEL I END USER TRAINING</b> .7 CEU PLAN AND EXECUTE A GPS/GIS DATA COLLECTION SURVEY PROCESS AND QUALITY CONTROL THE RESULTS AND TRANS-FORM THE OUTPUT INTO FORMATS COMPATIBLE WITH A VARIETY OF GIS APPLICATION SOFTWARE DUTIES.</p>
0044	1	Eff: 3/20/1996	<p><b>AGE AND GROWTH WORKSHOP</b> 1.0 CEU ACCURATELY AGE A VARIETY OF FISH SPECIES USING A VARIETY OF HARD PARTS. UNDERSTAND THE USE AND LIMITATIONS OF AGE DATA IN FISHERIES MANAGEMENT.</p>
0045	1	Eff: 8/1/1995	<p><b>ORDERS TESTUDINES AND ANURA OF ILLINOIS</b> 1.5 CEU IDENTIFY ANIMALS IN ILLINOIS USING VOUCHER SPECIMENS AND LIVE INDIVIDUALS. GAIN KNOWLEDGE ON THEIR LIFE HISTORIES, POPULATION DYNAMICS INCLUDING DENSITIES, REPRODUCTION, MORTALITY, AGE &amp; GROWTH.</p>
0046	1	Eff: 2/22/1996	<p><b>INCORPORATING SOCIAL SCIENCE INTO FISHERIES MGMT</b> .8 CEU MANAGE MORE EFFECTIVELY TO AVOID USER-GROUP CONFLICTS. DEVELOP FISHERIES POLICY THROUGH DEFINING PUBLIC INTEREST. USE SOCIAL SCIENCE DATA IN FISH MGMT. UNDERSTAND HUMAN DIMENSIONS RESEARCH METHODS</p>

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0047	1	Eff: 8/19/1996	<p><b>THE CRAYFISH AND MUSSELS OF ILLINOIS</b></p> <p>1.5 CEU</p> <p>PARTICIPANTS WILL BE ABLE TO CORRECTLY IDENTIFY ALL OF THE CRAYFISH AND MUSSELS IN IL USING VOUCHER SPECIMENS &amp; LIVE INDIVIDUALS CAPTURED BY THE PARTICIPANTS. GAIN KNOWLEDGE OF LIFE HISTORY.</p>
0048	1	Eff: 11/20/1996	<p><b>STREAM HABITAT AND DRAINAGE MAINTENANCE</b></p> <p>1.0 CEU</p> <p>GAIN WORKING KNOWLEDGE OF FOLLOWING: EFFECTS OF CHANNELIZATION ON ENVIRON QUALITY. ECONOMIC COSTS AND BENEFITS OF DRAINAGE, &amp; METHODS OF PROTECTING AND RESTORING STREAM HABITAT.</p>
0049	1	Eff: 10/8/1996	<p><b>STREAM HABITAT ASSESMENT: METHODS AND ANALYSIS</b></p> <p>.9 CEU</p> <p>PARTICIPANTS WILL BE ABLE TO RESEARCH THE ABUNDANCE OF DIFFERENT METHODOLGIES, SELECT THE APPROPRIATE PROTOCOL AND IMPLEMENT SUCH METHODS.</p>
0050	1	Eff: 9/18/1996	<p><b>AQUATIC INSECT SAMPLING, IDENTIFICATION &amp; MONITOR.</b></p> <p>1.4 CEU</p> <p>IDENTIFY MACROINVERTEBRATES, POSSES A WORKING KNOWLEDGE OF INVERTEBRATE KEYS, SELECT APPROPRIATESAMPLING TECHNIQUES ANDUNDERSTAND METHODS OF BIOMONITORING.</p>
0051	1	Eff: 8/25/1996	<p><b>DESIGN AND ANALYSIS OF ANGLER SURVEYS</b></p> <p>.8 CEU</p> <p>PICK APPROPRIATE SURVEY DESIGNS THAT CAN MEET SURVEY OBJECTIVES, COMPUTE TOTAL CATCH, EFFORT, SPUE, AND UNDERSTAND CALCULATIONS OF VARIANCES FORTHE MAJOR DESIGNS</p>

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0052	1	Eff: 2/25/1996	<p><b>AQUATIC VEGETATION MANAGEMENT</b> 7.5 CEU</p> <p>STUDENTS WILL BE ABLE TO IDENTIFY COMMON SPECIES OF AQUATIC VEGETATION &amp; DETERMINE ASSOCIATED FISHERIES VALUE. PARTICIPANTS WILL BE ABLE TO EVALUATE &amp; IMPLEMENT APPROPRIATE CONTROL MEASURES OF NU</p>
0053	1	Eff: 2/15/1997	<p><b>SOUTHEASTERN INSTREAM FLOW WORKSHOP</b> .5 CEU</p> <p>STUDENTS WILL LEARN PRACTICAL AND REGIONALLY APPLICABLE INSTREAM FLOW TECHNIQUES METHODOLOGY AND LEGALITIES</p>
0054	1	Eff: 4/27/1997	<p><b>HUMAN DIMENSIONS OF FISHERIES AND WILDLIFE</b> .3 CEU</p> <p>STUDENTS WILL ACQUIRE AN UNDERSTANDING OF THE ROLE OF HUMAN DIMENSIONS IN FISHERIES AND WILDLIFE MANAGEMENT; INCLUDING AN OVERVIEW OF RELEVANT DEMOGRAPHICS.</p>
0055	1	Eff: 8/24/1997	<p><b>MICROCOMPUTER APPLICATIONS</b> .8 CEU</p> <p>AN INTRO TO INTERNET AND GIS AS WELL AS VARIOUS OTHER SOFTWARE APPLICATIONS AVAILABLE TO FISH AND WILDLIFE PROFESSIONALS</p>
0056	1	Eff: 2/4/1997	<p><b>TECHNICAL WRITING</b> .7 CEU</p> <p>UPON COMPLETION OF THE COURSE PARTICIPANTS WILL BE ABLE TO WRITE SCIENTIFIC PAPERS, REPORTS AND PROPOSALS WITH MORE CONFIDENCE</p>
0057	1	Eff: 8/20/1997	<p><b>THE CYPRINIDAE OF ILLINOIS</b> 1.5 CEU</p> <p>PARTICIPANTS WILL BE ABLE TO CORRECTLY IDENTIFY ALL OF THE MINNOWS IN ILLINOIS</p>

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0058	1	Eff: 1/22/1998	<p><b>WATERSHED RESTORATION</b> 1.5 CEU'S (14.5 HOURS) COURSE PARTICIPANTS WILL LEARN HOW TO CONDUCT A BASIC STREAM ASSESSMENT; DEVELOP STRATEGIC PLAN FOR IMPROVING WATERSHEDQUALITY; UNDERSTAND HYDROLOGY RESTORATION CONCEPTS.</p>
0059	1	Eff: 12/1/1997	<p><b>LEADERSHIP IN AN ERA OF NO EASY ANSWERS</b> 1.1 CEU'S (11 CONTACT HOURS) OBJECTIVE OF COURSE IS TO INTRODUCE PARTICIPANTS TO BASIC PHILOSOPHY &amp; PROCESS OF ADAPTIVE ENVIRONMENT MANAGEMENT; PARTICIPANTS WILL LEARN HOW TO INCLUDE MULTIPLE STAKEHOLDERS IN A MODELING PROJECT.</p>
0059	2	Eff: 12/6/1997	<p><b>LEADERSHIP IN AN ERA OF NO EASY ANSWERS</b> .7 CEU'S (7 CONTACT HOURS) ONE DAY VERSION OF COURSE IS TO INTRODUCE PARTICIPANTS TO BASIC PHILOSOPHY &amp; PROCESS OF ADAPTIVE ENVIRON MANAGEMENT; PARTICIPANTS WILL LEARN NOW TO INCLUDE MULTIPLE STAKEHOLDERS IN A MODELING PROJECT.</p>
0060	1	Eff: 3/27/1998	<p><b>PUBLIC &amp; PROFESSIONAL VALUES IN FISHERIES MANAGEMENT</b> .3 CEU'S (3 CONTACT HOURS) DEVELOP AN UNDERSTANDING OF HUMAN DIMENSIONS INQUIRY; UNDERSTANDING OF PUBLIC &amp; PROFESSIONAL VALUES IN MANAGEMENT DECISION MAKING, &amp; AN ABILITY TO USE PUBLIC INVOLVEMENT TECHNIQUES.</p>
0061	1	Eff: 4/24/1998	<p><b>NATURAL HISTORY &amp; MANAGEMENT OF OREGON'S DESERT FISHERIES</b> 2.0 CEU'S (20.5 CONTACT HOURS) PROVIDE CURRENT RESEARCH &amp; MANAGEMENT STATUS TO BIOLOGISTS &amp; MANAGERS WITHIN OREGON'S GREAT BASIN HABITATS; PROVIDE UDERSTANDING OF GEOLOGY, HYDROLOGY, LIFE HISTORIES, GENETICS &amp; LEGAL STATUS.</p>

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0062	1	Eff: 8/28/1998	<p><b>LEAVE NO TRACE--TRAIN THE TRAINER WORKSHOP</b> 2.0 CEU'S (20 CONTACT HOURS) EACH SUCCESSFUL PARTICIPANT WILL BE ABLE TO DESCRIBE THE SIX LEAVE NO TRACE PRINCIPLES; DEMONSTRATE APPROPRIATE SKILLS &amp; WILL BE ABLE TO RELATE THE PRINCIPLES &amp; TEACH THEM TO OTHERS.</p>
0062	2	Eff: 8/29/1998	<p><b>LEAVE NO TRACE--TRAIN THE TRAINER WORKSHOP</b> .3 CEU (3 CONTACT HOURS) EACH SUCCESSFUL PARTICIPANT WILL BE ABLE TO DESCRIBE THE SIX LEAVE NO TRACE PRINCIPLES; DEMONSTRATE APPROPRIATE SKILLS &amp; WILL BE ABLE TO RELATE THE PRINCIPLES &amp; TEACH THEM TO OTHERS.</p>
0063	1	Eff: 9/16/1998	<p><b>INTRODUCED AQUATIC SPECIES</b> .5 CEU (5 HOURS) PARTICIPANTS WILL HAVE A BETTER UNDERSTANDING &amp; KNOWLEDGE OF THE IMPACTS ASSOCIATED WITH THE INTRODUCTION OF EXPTIC FISH &amp; MOLLUSKS SPECIES IN VIRGINIA &amp; THE CHESAPEAKE BAY WATERSHED.</p>
0064	1	Eff: 7/1/1998 - 8/21/1998	<p><b>MODELING DEMYSTIFIED I</b> 1.2 CEU (12 HOURS) THE OBJECTIVE OF THIS COURSE IS TO INTRODUCE PARTICIPANTS TO THE BASIC PHILOSOPHY &amp; PROCESS OF MODELING.</p>
0064	2	Eff: 8/22/1998	<p><b>MODELING DEMYSTIFIED I</b> .6 CEU (6 HOURS) THE OBJECTIVE OF THIS COURSE IS TO INTRODUCE PARTICIPANTS TO THE BASIC PHILOSOPHY &amp; PROCESS OF MODELING.</p>

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0065	1	Eff: 2/10/1999	<p><b>PRACTICAL APPROACHES TO RESTORING WATERSHEDS</b></p> <p>1.5 CEU (15 HOURS)</p> <p>GAIN A MORE COMPLETE UNDERSTANDING OF WATERSHED PROCESSES. FOSTER SKILLS &amp; NEW APPROACHES FOR WORKING WITH DIVERSE GROUPS. KNOW WHERE TO ACCESS INFORMATION FOR ASSESSING WATERSHED CONDITION.</p>
0066	1	Eff: 12/30/1998	<p><b>INTRODUCTION TO GIS IN NATURAL RESOURCES</b></p> <p>1.1 CEUS (11 HOURS)</p> <p>PARTICIPANTS WILL UNDERSTAND THE BASICS OF GIS; HOW TO DO SIMPLE GIS TASKS; GAIN AN UNDERSTANDING OF HOW GIDS CAN IMPROVE MANAGEMENT OF NATURAL RESOURCES.</p>
0067	1	Eff: 8/27/1998	<p><b>THE AQUATIC INSECTS OF ILLINOIS</b></p> <p>1.5 CEU (15 HOURS)</p> <p>PARTICIPANTS WILL BE ABLE TO CORRECTLY IDENTIFY MANY NATIVE INSECTS OF ILLINOIS USING VOUCHER SPECIMENS &amp; COLLECTIONS WHICH THEY WILL BE ASKED TO PROVIDE &amp; GAIN KNOWLEDGE OF THE INSECTS LIFE HISTORIES</p>
0068	1	Eff: 2/24/1999	<p><b>INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS</b></p> <p>1.0 CEU (10 HOURS)</p> <p>PARTICIPANTS WILL BE ABLE TO INDEPENDENTLY USE GIS SOFTWARE AND ANALYZE SPATIALLY-ORIENTED DATA AND CREATE MAPS AND ADDRESS LANDSCAPE-LEVEL QUESTIONS PERTAINING TO FISHERIES MANAGEMENT PROBLEMS.</p>
0069	1	Eff: 3/5/1999	<p><b>MANAGEMENT OF NON-GAME FISH AND AMPHIBIANS</b></p> <p>.75 CEU (7.5 HOURS)</p> <p>PARTICIPANTS WILL DEVLEOPE UNDERSTANDING OF STATUS OF NON-GAME FISH &amp; AMPHIBIANS IN THEIR RESPECTIVE MGMT AREAS; AND INTHE EASTERN US IN GENERAL. THEY WILL E EXPOSED TO CURRENT US METHODS OF MGMT.</p>

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Ace Course Number	Version	Dates	Title/Credit/Description
0070	1	Eff: 7/11/1999	<p><b>FISHERIES GENETICS WORKSHOP</b> .7 CEU (7 HOURS) PARTICIPANTS SHOULD BE ABLE TO UNDERSTAND THE GENETIC THEORY USED IN FISHERIES GENETICS AS WELL AS HAVE AN UNDERSTANDING OF DIFFERENT MOLECULAR GENETICS AND ALLOZYME TECHNIQUES.</p>
0071	1	Eff: 10/15/1999	<p><b>ESTIMATING ANIMAL ABUNDANCE</b> .6 CEU (6 HOURS) STUDENTS WILL BE ABLE TO IDENTIFY WHICH MARK/RE-CAPTURE TECHNIQUES ARE BEST SUITED FOR ESTIMATING ANIMAL ABUNDANCE IN A VARIETY OF CIRCUMSTANCES AND UNDERSTAND THE ASSUMPTIONS AND LIMITATIONS OF EACH</p>
0072	1	Eff: 8/27/1999 - 8/30/1999	<p><b>FISH POPULATION ASSESSMENT</b> 1.5 CEU (15 HOURS) STUDENTS LEARN HOW TO ESTIMATE FISH POPULATIONS; USE GROWTH DATA, MORTALITY &amp; RECRUITMENT DATA FOR MANAGING THEM; USE BEVERTON-HOLT EQUIL. MODEL, FISHPARM &amp; MOCPOP TO ASSESS IMPACT OF FISHING REGS.</p>
0072	2	Eff: 2/1/2005	<p><b>FISH POPULATION ASSESSMENT</b> 1.4 CEU (14 hours) UPON COMPLETION OF THIS COURSE, STUDENT WILL BE ABLE TO APPLY APPROPRIATE STATISTICAL ESTIMATION METHODS, TAKING INTO ACCOUNT STUDY DESIGN; UNDERSTAND THE CONSEQUENCES OF VIOLATING ASSUMPTIONS, AND IDENTIFY APPROPRIATE FIELD METHODOLOGY OR STATISTICAL APPROACHES TO MINIMIZE PROBLEMS VIOLATING ASSUMPTIONS WOULD ENTAIL; DESIGN MARK-RECAPTURE AND DEPLETION FIELD SAMPLING PROTOCOLS.</p>

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0073	1	Eff: 3/1/2000	<p><b>PHYSICAL PRINCIPLES IN ELECTROFISHING</b></p> <p>1 CEU (10 HOURS)</p> <p>PARTICIPANTS WILL BE ABLE TO DEFINE VOLTAGE, CURRENT, POWER, RESISTIVITY, &amp; RESISTANCE. THEY WILL ALSO BE ABLE TO SOLVESIMPLE SERIES &amp; PARALLEL CIRCUITS, DESCRIBE THE BASIC WAVE FORMS USED.</p>
0074	1	Eff: 3/7/2000	<p><b>YIELD PER RECRUIT MODELING FOR FISH MANAGEMENT</b></p> <p>6 HOURS = 0.6 CEU'S</p> <p>PARTICIPANTS WILL BE ABLE TO QUANTITATIVELY COMPARE THE EFFICACY OF DIFFERENT FISHING REGULATIONS FOR IMPROVING FISHERIES MGMT OBJTS. DEFINE UNDERLYING ASSUMPTIONS UPON WHICH STOCK ASSESSMENT METHODS.</p>
0075	1	Eff: 9/17/1999	<p><b>DESERT FISH CONSERVATION AND MANAGEMENT</b></p> <p>20 HOURS = 2.0 CEU'S</p> <p>PARTICIPANTS WILL BE ABLE TO PROVIDE THE MOST CURRENT RESEARCH AND MGMT, STATUS TO RESPONSIBLE BIOLOGISTS AND MGRS, W/IN OR'S GREAT BASIN HABITATS AND LOOK AT REAL LIFE MGMT, SITUATIONS, FORM SOLUTION</p>
0076	1	Eff: 8/20/2000	<p><b>THE PRESENT AND FUTURE OF MINNOWS, SUCKERS AND OTHER FISHES</b></p> <p>7 HOURS = .7 CEU'S</p> <p>LEARN THE DISTRIBUTINAL STATUS OF MIDWEST US PLAINS FISH NOT CONSIDERED TO BE THE TARGET OF ANGLERS/LEARN FIELD COLLECTION TECHNIQUES TO FACILLITATE INTERSTATE DATA SHARING/LEARN COMMUNITY ANALYSIS.</p>
0077	1	Eff: 8/20/2000	<p><b>DECISION ANALYSIS FOR NATURAL RESOURCE MANAGEMENT</b></p> <p>7 HOURS = .7 CEU'S</p> <p>FAMILIARIZE NATURAL RESOURCE PROFESSIONALS WITH DECISION ANALYTIC APPROACHES. BE ABLE TO CREATE &amp; PARAMATIZE A SIMPLE DECISION MODEL &amp; UNDERSTAND THE BASICS TO TAKE PART IN EXPERT PANELS.</p>

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0078	1	Eff: 8/20/2000	<p><b>APPLIED RIVER GEOMORPHOLOGY FOR FISHERIES BIOLOGISTS</b> 7 HOURS = .7 CEU'S LEARN HOW FUNDAMENTAL HYDRAULIC FORCES INTERACT WITH RIVER CHANNEL MORPHOLGY TO FORM AQUATIC HABITAT &amp; MANAGE STREAMSIDE HABITAT TO IMPROVE BOTH TERRESTRIAL &amp; AQUATIC HABITAT &amp; DESIGN RIVER MGNT.</p>
0079	1	Eff: 8/20/2000	<p><b>COOPERATIVE LEARNING IN FISHERIES EDUCATION</b> 7.5 HOURS = .75 CEU'S UNDERSTAND WHY COOPERATIVE GROUPING IS IMPORTANT &amp; THE RELEVANCE OF RESEARCH IN COOPERATIVE LEARNING &amp; HOW TO IMPLEMENT COOPERATIVE LEARNING IN THE CLASSROOM &amp; HOW TO TEACH STUDENTS COOPERATIVE SKILLS.</p>
0080	1	Eff: 8/17/2000	<p><b>STREAM RESTORATION AND PROTECTION IN NORTH CAROLINA</b> 1.2 CEUS (12 HOURS) PARTICIPANTS WILL HAVE A BASIC UNDERSTANDING OF STREAM RESTORATION PRINCIPALS, PRACTICES, AND APPLICATIONS PARTICULARLY AS THEY RELATE TO PROJECTS IN NC.</p>
0081	1	Eff: 8/31/2000	<p><b>ID, MANAGEMENT, AND RESTORATION OF MACROPHYTES</b> 1.6 CEUS (16 HOURS) PARTICIPANTS WILL BE ABLE TO CORRECTLY IDENTIFY ALL OF THE AQUATIC MACROPHYTES IN ILLINOIS USING VOUCHER SPECIMENS AND COLLECTIONS PROVIDED BY AN INSTRUCTOR.</p>
0082	1	Eff: 2/29/2000	<p><b>IDENTIFICATION OF DARTERS AND MADTOMS IN ILLINOIS</b> 0.7 CEUS (7 HOURS) WILL PROVIDE AN OVERVIEW OF THE IDENTIFICATION OF DARTER AND MADTOM SPECIES IN IL TO ATTENDEES WHO HAVE LIMITED KNOWLEDGE OF THESE SPECIES, AND PROVIDE A REVIEW FOR BIOLOGISTS WHO ENCOUNTER.</p>

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0083	1	Eff: 7/18/2000	<p><b>STATISTICS SMORGASBORD OF SELECTED TOPICS</b> 0.8 CEUS (8 HOURS) THE PARTICIPANTS WILL GAIN AN UNDERSTANDING OF RESOURCE SELECTION METHODOLOGIES, OF METHODS FOR THE LONITUDINAL ANALYSIS OF FISHERIES STOCKS, OF POWER AND SAMPLE SIZE CONSIDERATIONS, AND LOGISTIC.</p>
0084	1	Eff: 8/20/2000	<p><b>FISHERIES ECONOMICS FOR NON-ECONOMISTS</b> 6 HOURS = .6 CEU(S) PARTICIPANT WILL LEARN BASIC CONCEPTS OF MICRO/WELFARE ECONOMICS; LEARN SPECIFIC APPLICATIONS OF THESE CONCEPTS TO FISHERIES MANAGEMENT ISSUES; IDENTIFY CRITICAL FACTORS IN BENEFIT-COST/IMPACT ANALYSIS.</p>
0085	1	Eff: 9/27/2000	<p><b>SAMPLING DESIGN AND STATISTICS</b> 0.7 HOURS (7 HOURS) UPON COMPLETION, PARTICIPANTS WILL BE ABLE TO DESIGN AND SOUND SAMPLING STRATEGIES ON LENTIC SYSTEMS. PARTICIPANTS WILL ALSO BE ABLE TO APPLY VARIOUS STATISTICAL TECHNIQUES TO DATA.</p>
0086	1	Eff: 2/23/2001	<p><b>URBAN FISHING PROGRAM TECHNIQUES</b> 0.3 CEUS (3 HOURS) WILL PROVIDE PARTICIPANTS WITH A BETTER UNDERSTANDING OF URBAN FISHING PROGRAM DEVELOPMENT AND GIVE THEM A GOOD SENSE OF THE HUMAN DIMENSIONS AND MARKETING RESEARCH THAT WILL BE NECESSARY FOR THEM.</p>
0087	1	Eff: 2/13/2001	<p><b>CONSERVATION OF RIPARIAN AREAS &amp; WATERWAYS: CONSIDERATION FOR FISH &amp; WILDLIFE HABITAT</b> 9.75 HRS = .975 CEU(S) DEMONSTRATE AN UNDERSTANDING OF FISHERIES &amp; WILDLIFE ISSUES IN RIPARIAN AREAS, ACQUIRE KNOWLEDGE OF CURRENT RESEARCH &amp; INTERDISCIPLINARY APPROACHES; DEVELOP AN APPRECIATION OF DIFFERENT SOCIAL CONTEXTS FOR RIPARIAN MANAGEMENT</p>

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0088	1	Eff: 8/19/2001	<p><b>INTRODUCTION TO DESIGN AND EVALUATION OF FISHWAYS</b> 8.0 HRS= .08 CEU(S) TO GIVE PARTICIPANTS THE NECESSARY BACKGROUND TO UNDERSTAND WHAT IS NEEDED TO DESIGN AND EVALUATE A SIMPLE FISHWAY. THEY WILL BE GIVEN A LIST OF REFER THAT THEY CAN OBTA AND USE FOR FURTH DETAIL INFO.</p>
0089	1	Eff: 8/19/2001	<p><b>ADAPTIVE CLUSTER SAMPLING OF AQUATIC POPULATIONS</b> 6.5 HRS= .065CEU(S) PARTICIPANTS WILL GAIN A WORKING KNOWLEDGE OF ADAPTIVE SAMPLING AND WILL BE ABLE TO JUDGE WHEN AND HOW TO APPLY ADAPTIVE SAMPLING IN THEIR OWN STUDIES.</p>
0090	1	Eff: 8/19/2001	<p><b>RIVER MORPHOLOGY AND RESTORATION OVERVIEW</b> 10 HRS= 1.0 CEU(S) UPON COMPLETION, THE PARTICIPANT WILL BE ABLE TO IDENTIFY BANKFULL STAGE, ESTIMATE BANKFULL DISCHARGE, CLASSIFY STREAMSAND RIVERS BY THEIR MORPH PROPER &amp; EVALU NEED &amp; POTENTIAL FOR RESTORATION</p>
0091	1	Eff: 8/19/2001	<p><b>PRINCIPLES OF ELECTROFISHING</b> 6 HRS= .06CEU(S) PARTICIPANTS WILL LEARN FUNDAMENTALS OF ELECTRICITY AS THEY RELATE TO ELECTROFISHING EQUIPMENT AND SAMPLING; AND TECH TO MINIMIZE THREAT OF INJURY TO THE EQUI OPER,CREW MEMBERS,BYSTAND,&amp; FISH, &amp; WILDL</p>
0093	1	Eff: 8/19/2001	<p><b>USING TELEMETRY TO STUDY AQUATIC SYSTEMS</b> 0.45 CEUS (4.5 Hours) TO PROVIDE PARTICIPANTS WITH A BASIC UNDERSTANDING OF TELEMETRY AND ITS CAPABILITIES FOR STUDYING AQUATIC ANIMALS.</p>

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0094	1	Eff: 3/22/2001	<p><b>AQUATIC INSECTS OF THE ROCKY MOUNTAINS</b> 8 HOURS = 0.8 CEU(S) PARTICIPANTS WILL DEMONSTRATE A BASIC KNOWLEDGE OF TAXONOMY, WILL BE ABLE TO ID AQUATIC INSECT ORDERS ON SITE AND COMMON FAMILIES AND GENERA WITH AIDS PROVIDED.</p>
0095	1	Eff: 6/2/2001	<p><b>ANALYSIS, INTERPRETATION, AND APP OF FISH OTOLITHS ,AND OTHER HARD PARTS: THE STATE-OF-THE ART.</b> 1.6 CEU'S GAIN KNOWLEDGE ABOUT OTOLITH/OTHER HARD PARTS STRUCTURE AND FUNCTION,TECHNIQUES OF EXTRACTION, PREPARTION,TECHNIQUES OFINCREMENTAL ANALYSIS, METHODS OF DATA ANALYSIS,METHODS IN MICROCHEMSITRY.</p>
0097	1	Eff: 7/24/2001 - 7/25/2001	<p><b>IDENTIFICATION AND RELOCATION OF MUSSELS</b> 1.1 CEU (11 Hours) PARTICIPANTS WILL BE ABLE TO CORRECTLY IDENTIFY MUSSELS IN ILLINOIS USING VOUCHER SPECIMENS AND COLLECTIONS PROVIDED BYTHE INSTRUCTOR. THEY WILL GAIN KNOWLEDGE OF FUNDAMENTAL AND INNOVATIVE TECHNIQUES TO MANAGE AS WELL AS NECESSARY REQUIREMENTS OF ESTABLISHING OR ENHANCING EXISTING NATIVE MUSSEL POPULATIONS.</p>
0098	1	Eff: 8/18/2002 - 8/22/2002	<p><b>HOW TO WORK WITH A COMMISSION</b> .3 CEU's (3 Hours) PARTICIPANTS WILL BE ABLE TO UNDERSTAND A COMMISSIONER'S JOB DESCRIPTION; A DEFINITION OF FISH AND WILDLIFE POLICY; UNDERSTAND HOW STAFF ARE UNIQUELY PLACED TO POSITIVELY AFFECT THE POLICY MAKING PROCESS.</p>
0099	1	Eff: 8/18/2002 - 8/22/2002	<p><b>CONFLICT RESOLUTION SKILLS FOR NATURAL RESORUCE PROFESSIONALS</b> .4 CEU's (4 hours) THIS INTRODUCTION IS DESIGNED TO ACQUAINT LEARNERS WITH THE PHILOASOPHY, CONCEPTS, PROCESSES, AND BEHAVIORAL SKILLS USED TO RESOLVE DISPUTES IN THIRD-PARTY MEDIATIONS.</p>

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0100	1	Eff: 2/1/2002	<b>RESTORATION ECOLOGY, CONSERVATION AND MANAGEMENT OF BROOK TROUT IN NORTHERN LAKES</b> 0.8 CEUs (8 hours) CONTINUING EDUCATION WORKSHOP
0101	1	Eff: 2/1/2002	<b>BASIC GIS TECHNIQUES FOR FISH BIOLOGISTS</b> 0.7 CEUs (7 hours) THIS COURSE WILL PROVIDE AN OVERVIEW AND REVIEW OF BASIC SKILLS WITH A FOCUS ON GIS TECHNIQUES DESIGNED FOR FISHERIES BIOLOGISTS USING ARCVIEW AND ARCMAP SOFTWARE.
0102	1	Eff: 2/1/2002 - 2/8/2001	<b>ADVANCED GIS TECHNIQUES FOR FISH BIOLOGISTS</b> 0.7 CEUs (7 hours) CONTINUING EDUCATION WORKSHOP
0102	2	Eff: 9/1/2005	<b>ADVANCED GIS TECHNIQUES FOR FISH BIOLOGISTS</b> 0.8 CEU (8 hours) COURSE IS PANNED TO PROVIDE ADVANCED SKILLS IN USING GIS FOR ANALYZING FISH COMMUNITIES. MANIPULATE THEMES USING INTERSECT, UNION, MERGE CONVERT VECTOR & RASTER FORMATS. CREATE SPATIAL ANALYSES. IMPORT AERIAL/SATELLITE PHOTO, OVERLAY DEMS.
0105	1	Eff: 2/1/2002	<b>TWO DIMENSIONAL MODELING WORKSHOP</b> 2.75 CEUs (27.5 hours) CONTINUING EDUCATION WORKSHOP
0106	1	Eff: 2/1/2002	<b>DATA TO INFORMATION - IS MONITORING DRIVING THE QUESTIONS, OR IS THE QUESTION DRIVING THE MONITORING?</b> 0.8 CEUs (8 hours) CONTINUING EDUCATION WORKSHOP
0107	1	Eff: 2/1/2002	<b>PRINCIPLES OF LEADERSHIP - PART I</b> 1.5 CEUs (10.5 hours) CONTINUING EDUCATION WORKSHOP

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0108	1	Eff: 3/1/2002	<b>SCIENTIFIC AND TECHNICAL WRITING FOR BIOLOGISTS</b> 3.6 CEUs (36 hours) CONTINUING EDUCATION WORKSHOP
0109	1	Eff: 4/1/2002	<b>CAPTURING FISH WITH ELECTRICITY - AN INTRODUCTION TO ELECTROFISHING</b> .45 CEUs (4.5 hours) CONTINUING EDUCATION WORKSHOP
0110	1	Eff: 5/1/2002 - 5/9/2002	<b>FLUVIAL GEMORPHOLOGY AND STREAM CLASSIFICATION WORKSHOP</b> 3.0 CEU (30 hours) CONTINUING EDUCATION WORKSHOP
0110	2	Eff: 6/1/2006	<b>FLUVIAL GEMORPHOLOGY AND STREAM CLASSIFICATION WORKSHOP</b> 3.0 CEU (30 hours) CONTINUING EDUCATION WORKSHOP
0111	1	Eff: 1/12/2003 - 1/14/2003	<b>BIOLOGICAL STATISTICS FOR FISHERIES MANAGEMENT</b> 1.6 CEU's (6 Hours) TOPICS TO BE COVERED IN THE COURSE INCLUDE CONCEPTS AND METHODS OF ANALYSIS FOR FISHERY DATA. INCLUDING ANALYSIS OF FISH POPULATION SIZE STRUCTURE, CONDITION, GROWTH, MORTALITY, ABUNDANCE, AND YIELD.
0111	2	Eff: 1/5/2006	<b>BIOLOGICAL STATISTICS FOR FISHERIES MANAGEMENT</b> 1.6 CEU (16 hours) INDIVIDUALS WILL ACQUIRE KNOWLEDGE AND SKILL IN THE ANALYSIS OF FISHERY DATA, INCLUDING ANALYSES OF FISH POPULATION SIZE STRUCTURE, CONDITION, GROWTH, MORTALITY, ABUNDANCE AND YIELD. THE COURSE WILL INTRODUCE KEY CONCEPTS RELATED TO FISH POPULATION ANALYSIS AND THEN EXTEND THOSE CONCEPTS TO PRACTICAL SKILLS OF FISHERY DATA ANALYSIS USING COMMONLY AVAILABLE COMPUTER SOFTWARE.

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0112	1	Eff: 2/24/2003	<p><b>IMPROVE YOUR FISHERIES PHOTOGRAPHY</b> .8 CEU's (8 Hours) THIS WORKSHOP PROVIDES BASIC AND ADVANCED TRAINING FOR IMPROVING THE USEFULNES OF IMAGES IN FISHERY WORK.</p>
0113	1	Eff: 3/5/2003	<p><b>ANIMAL POPULATION ASSESSMENT</b> 10 CEU's (10 Hours) THE PARTICIPANT WILL LEARN ABOUT QUANTITATIVE POPULATION ASSESSMENT TECHNIQUES COMMONLY USED TO ASSESS ABUNDANCE AND MONITOR ANIMAL POPULATIONS.</p>
0114	1	Eff: 8/10/2003	<p><b>EFFECTIVE EDUCATIONAL WEB DESIGN</b> .75 CEU's (7.5 Hours) THIS WORKSHOP WILL PROVIDE INSTRUCTION ON HOW TO EFFECTIVELY CONSTRUCT A WEB SITE FOR EDUCATIONAL PURPOSES.</p>
0115	1	Eff: 3/5/2003	<p><b>AQUATIC NUISANCE SPECIES</b> .8 CEU's ( 8 Hours) THIS WORKSHOP PROGRAM HAS BEN DESIGNED TO ASSIST FISHERY PRE-PROFESSIONALS &amp; PROFESSIONALS BETTER UNDERSTANT THE ECOLOGY OF AQUATIC NUISANCE SPECIES &amp; LEARN HOW TO IDENTIFY &amp; COLLECT THESE CRITTERS.</p>
0116	1	Eff: 3/6/2003	<p><b>NEW APPROACHES FOR FISHERY EVALUATIONS &amp; MANAGEMENT IN LAKES &amp; RESERVOIRS</b> .75 CEU's (7.5 Hours) THIS CONTINUING EDUCATION WORKSHOP IS DEVOTED TO LEARNING ABOUT NEW TOOLS AND PERSPECTIVES FOR RESEARCH AND MANAGEMENT OF RESERVOIR ECOSYSTEMS.</p>

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0117	1	Eff: 10/18/2002	<p><b>PRINCIPLES OF ELECTROFISHING</b></p> <p>1.3 CEU (13 hours)</p> <p>PARTICIPANTS LEARN FUNDAMENTALS OF ELECTRICITY AS THEY RELATE TO ELECTROFISHING EQUIPMENT AND SAMPLING, TECHNIQUES TO MINIMIZE THREAT OF INJURY, AND HOW TO USE KNOWLEDGE OF ELECTRICITY AND EQUIPMENT TO MAXIMIZE SAMPLING EFFICIENCY AND STANDARDIZE OPERATIONS.</p>
0118	1	Eff: 10/18/2002	<p><b>RIVER MORPHOLOGY AND RESTORATION OVERVIEW</b></p> <p>1.2 CEU (12 hours)</p> <p>CONTENT INCLUDES GENERAL PRINCIPLES OF RIVER MORPHOLOGY AND CLASSIFICATION SYSTEMS, OF HYDROLOGY AND HYDRAULICS, AND STREAM STABILITY; NATURAL CHANNEL RESTORATION APPROACHES AND DESCRIPTION OF STABILIZATION DEVICES &amp; HABITAT IMPROVEMENT DEVICES, ETC.</p>
0119	1	Eff: 8/29/2003 - 8/29/2006	<p><b>BASIC/INTERMEDIATE GIS FOR FISHERIES BIOLOGISTS &amp; MANAGERS</b></p> <p>0.8 CEU (8 hours)</p> <p>THIS COURSE WILL PROVIDE AN OVERVIEW AND REVIEW OF BASIC SKILLS WITH A FOCUS ON GIS TECHNIQUES DESIGNED FOR FISHERIES BIOLOGISTS USING ARCVIEW AND ARCMAP SOFTWARE.</p>
0119	2	Eff: 9/9/2006	<p><b>BASIC/INTERMEDIATE GIS FOR FISHERIES BIOLOGISTS &amp; MANAGERS</b></p> <p>0.8 CEU (8 hours)</p> <p>THIS COURSE WILL PROVIDE AN OVERVIEW AND REVIEW OF BASIC SKILLS WITH A FOCUS IN GIS TECHNIQUES DESIGNED FOR FISHERIES BIOLOGISTS USING ARCVIEW AND ARCMAP SOFTWARE.</p>
0120	1	Eff: 9/29/2003	<p><b>FISH POPULATION MODELING WORKSHOP</b></p> <p>1.0 CEU's (10 Hours)</p> <p>THIS WORKSHOP DEMONSTRATES USE OF TWO FISH POPULATION MODELS (FAST AND IFREGS) FOR ASSESSING LENGTH LIMITS IN RECREATIONAL FISHERIES.</p>

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0121	1	Eff: 9/28/2003	<p><b>STATISTICAL ASPECTS OF SAMPLING FRESHWATER FISH POPULATIONS AND HABITATS</b> 1.5 CEU's (15 Hours) THIS COURSE PROVIDES AN OVERVIEW OF THE STATISTICS OF SAMPLING THEORY.</p>
0122	1	Eff: 1/15/2004	<p><b>INTRODUCTION TO GEOSTATISTICS FOR FISHERIES</b> .6 CEUS (6 hours) THIS COURSE WILL INTRODUCE BASIC GEOSTATISTICAL CONCEPTS AND APPLICATIONS RELEVANT TO FISHERIES AND DEMONSTRATE THE USE OF AVAILABLE GEOSTATISTICAL SOFTWARE.</p>
0123	1	Eff: 2/20/2004	<p><b>BASIC ASSESSMENT AND RESTORATION OF DEGRADED STREAMS</b> .9 CEU's (9 Hours) THE CURRICULUM OF THIS WORKSHOP INTEGRATES THE KNOWLEDGE OF NATURAL FUNCTIONING STREAM CONDITION WITH APPLIED MANAGEMENT.</p>
0124	1	Eff: 2/20/2004 - 2/21/2004	<p><b>HOW TO WORK WITH A COMMISSION</b> .6 CEU's (6 Hours) THIS WORKSHOP COVERS THE WORKING RELATIONSHIPS BETWEEN STAFF, COMMISSIONERS AND AGENCY EXECUTIVES.</p>
0125	1	Eff: 8/20/2004	<p><b>INVESTIGATION AND VALUATION OF FISH AND MUSSEL KILLS</b> 0.8 CEU (8 hours) THIS COURSE WILL PROVIDE PRACTICAL INFORMATION AND KNOWLEDGE REGARDING THE INVESTIGATION OF FISH/MUSSEL KILLS IN BOTH THE FRESHWATER AND MARINE ENVIRONMENTS.</p>
0126	1	Eff: 8/20/2004	<p><b>RADIO TELEMETRY FOR FRESHWATER FISHERIES STUDIES</b> 0.95 CEU (9.5 hours) THE PURPOSE OF THIS COURSE IS TO ENABLE PARTICIPANTS TO DETERMINE THE SUITABILITY OF RADIO TELEMETRY AS A RESEARCH METHOD, TO PLAN A RADIO TELEMETRY STUDY TO ADDRESS MANAGEMENT OR RESEARCH QUESTIONS, AND TO USE TELEMETRY CORRECTLY AND EFFICIENTLY.</p>

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0127	1	Eff: 8/20/2004	<p><b>HYDROACOUSTIC TOOLS FOR FISH AND HABITAT ASSESSMENT</b></p> <p>0.8 CEU (8 hours)</p> <p>THIS COURSE WILL PROVIDE BACKGROUND IN HYDROACOUSTIC THEORY (AS IT APPLIES TO FISHERIES AND AQUATIC HABITAT APPLICATIONS), AN INTRODUCTION TO CURRENT STATE-OF-THE-ART APPLICATIONS FOR DISTRIBUTION AND ABUNDANCE OF FISH AND AQUATIC PLANTS, SEDIMENT CLASSIFICATION, AND FISH BEHAVIOR MONITORING.</p>
0128	1	Eff: 8/20/2004	<p><b>CONFLICT RESOLUTION SKILLS FOR NATURAL RESOURCE PROFESSIONALS</b></p> <p>0.4 CEU (4 hours)</p> <p>THIS WORKSHOP USES SELF-ASSESSMENT TOOL, DISCUSSION, LECTURE AND ROLE-PLAYS TO TEACH PROFESSIONALS HOW TO EASILY APPLY MEDIATION PRINCIPLES AND TECHNIQUES IN THEIR EVERY-DAY JOBS.</p>
0129	1	Eff: 8/20/2004	<p><b>HOW TO WORK WITH A COMMISSION</b></p> <p>0.4 CEU (4 hours)</p> <p>THIS WORKSHOP COVERS THE WORKING RELATIONSHIPS BETWEEN STAFF, COMMISSIONERS AND AGENCY EXECUTIVES.</p>
0130	1	Eff: 9/20/2004	<p><b>MEETING MANAGEMENT FOR TECHNICAL AND SCIENTIFIC COMMITTEES</b></p> <p>THIS WORKSHOP IS TAILORED TO THE AUDIENCE. TRADITIONAL MEETING MANAGEMENT TOPICS INCLUDE: WHEN TO (AND NOT TO) HAVE A MEETING; PLANNING, AGENDAS, HOMEWORK AND OTHER MEETING PRE-WORK, ETC.</p>
0131	1	Eff: 9/20/2004	<p><b>STREAM ASSESSMENT AND MONITORING</b></p> <p>2.4 CEU (24 hours)</p> <p>PARTICIPANTS WILL UNDERSTAND THE THEORY OF CHANNEL EVOLUTION; WILL BE CAPABLE OF SITE SURVEYING; AND WILL BE ABLE TO CONDUCT STREAM ASSESSMENT TECHNIQUES.</p>

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0132	1	Eff: 5/20/2004	<p><b>FITTING GROWTH CURVES USING BACK-CALCULATED LENGTH-AT-AGE DATA</b> 0.65 CEU (6.5 hours)</p> <p>THIS WORKSHOP IS DESIGNED TO PROVIDE BASIC TRAINING IN AGE BACK CALCULATION USING OTOLITH AGE DATA AND STATISTICAL ANALYSIS OF RESULTS USING SAS.</p>
0133	1	Eff: 1/9/2005	<p><b>MARK-RECAPTURE AND POPULATION DYNAMICS</b> 2.25 CEU (22.5 hours)</p> <p>PARTICIPANTS GAIN A BETTER UNDERSTANDING OF MARK-RECAPTURE TECHNIQUES AND CONCEPTS, AS WELL AS THE APPLICATION OF POPULATION DYNAMICS TO FISHERIES DATA SETS.</p>
0134	1	Eff: 10/21/2005	<p><b>DESIGNING FOR AQUATIC ORGANISM PASSAGE AT ROAD-STREAM CROSSING</b> 2.3 CEU's (23 hours)</p> <p>PARTICIPANTS IN THIS INTENSIVE INTERDISCIPLINARY WORKSHOP WILL LEARN THE NECESSARY SKILLS TO DESIGN STREAM-CROSSING STRUCTURES THAT WILL ACCOMMODATE AQUATIC ORGANISM PASSAGE, PROVIDE MORE NATURAL STREAM PROCESSES AND CHANNEL FUNCTION, AND MAXIMIZE THE LONG-TERM DURABILITY AND STABILITY OF THE STRUCTURE.</p>
0135	1	Eff: 9/10/2005	<p><b>THRIVE NOT JUST SURVIVE A HOT PUBLIC MEETING</b> .4 CEU's (4 hours)</p> <p>IN THIS HIGHLY INTERACTIVE WORKSHOP PARTICIPANTS WILL LEARN HOW TO GET THE RESULTS YOU WANT IN LESS TIME. PARTICIPANTS WILL ALSO LEARN PUBLIC MEETING SUCCESS PRINCIPLES AND EASY-TO-USE TOOLS TO: CREATE A MORE COLLABORATIVE ENVIRONMENT; ADVANCE IDEA AND REACH BETTER DECISIONS IN LESS TIME; ENSURE THAT MEETINGS ACTUALLY RESULT IN ACTION; AND HELP YOU HELP YOUR ORGANIZATION DELIVER THE BEST RESULTS.</p>

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0136	1	Eff: 9/11/2005	<p><b>WRITING FOR PUBLICATIONS</b></p> <p>.8 CEU's (8 hours)</p> <p>THIS WORKSHOP IS AIMED AT ENHANCING TECHNICAL WRITING SKILLS IN RESEARCH AND MANAGEMENT PERSONNEL. THIS WORKSHOP STRESSES SKILLS SUCH AS IDENTIFYING PUBLISHABLE DATA SETS, ORGANIZING MANUSCRIPTS, AND CORRESPONDING AND NEGOTIATING WITH EDITORS</p>
0137	1	Eff: 9/11/2005	<p><b>INTRODUCTION TO ECOLOGICAL MODELING AND PROGRAMMING USING AD MODEL BUILDER</b></p> <p>1.2 CEU's (12 hours)</p> <p>THIS COURSE TARGETS PRACTICING FISHERIES STOCK ASSESSMENT SCIENTISTS, QUANTITATIVE ECOLOGIST, AND STUDENTS WHO NEED A TOOL FOR ESTIMATIONS THE PARAMETERS OF COMPLEX NONLINEAR STATISTICAL MODELS IN EITHER A FREQUENT OR BAYESIAN FRAMEWORK.</p>
0138	1	Eff: 9/10/2006	<p><b>LEADERSHIP REGARDLESS OF POSITION</b></p> <p>0.6 CEU (6 hours)</p> <p>PARTICIPANTS WILL BE ABLE TO IDENTIFY THE MOST IMPORTANT ATTRIBUTES OF EFFECTIVE LEADERSHIP IN NATURAL RESOURCE ORGANIZATIONS. PARTICIPANTS WILL IDENTIFY THE CHARACTERISTICS OF THEIR PERSONALITIES AND APPROACHES TO WORK THAT ENHANCE OR INHIBIT THEIR ABILITY TO LEAD. PARTICIPANTS WILL DEVELOP STRATEGIES TO ENHANCE THEIR INFLUENCE IN ORGANIZATIONS THAT ARE APPROPRIATE TO ANY POSITION WITHIN THE ORGANIZATIONS.</p>

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0139	1	Eff: 3/17/2006	<p><b>INTRODUCTION TO ELECTROFISHING</b></p> <p>1 CEU's (10 Hours)</p> <p>NEW FISHERIES PROFESSIONALS WOULD RECEIVE AN INTRODUCTION TO HOW ELECTROFISHING WORKS, THE NATURE AND PROPER USE OF EQUIPMENT, HOW ELECTROFISHING CAN/SHOULD BE USED IN FISHERIES SURVEYS, AS WELL AS PERSONNEL SAFETY AND PROPER HANDLING OF FISH. MORE EXPERIENCED PROFESSIONALS WOULD LEARN OF THE LATEST FINDINGS REGARDING THE USE OF ELECTRICITY FOR THE VARIABLE CONDITIONS ENCOUNTERED AND STUDIES OF EFFECTS ON FISHES, IN CONCERT WITH THE MOST RECENT ADVANCES IN TECHNOLOGY TO SAFELY AND APPROPRIATELY SAMPLE FISH POPULATIONS.</p>
0140	1	Eff: 1/1/2006	<p><b>FISH/AQUATIC ECOSYSTEM ECOLOGY</b></p> <p>1.2 CEU (12 hours)</p> <p>OBJECTIVE 1: INSTRUCTION ON BASIC CONCEPTS OF QUATIC ECOSYSTEM AND FISH COMMUNITY ECOLOGY. OBJECTIVE 2: DISCUSS HOW LECTURED CONCEPTS APPLY TO FISHERIES MANAGEMENT AND POLICY IN MINNESOTA.</p>
0141	1	Eff: 10/13/2005	<p><b>WATER QUALITY FOR FISHERIES PROFESSIONALS</b></p> <p>1.15 CEU (11.5 hours)</p> <p>THIS WORKSHOP SHOULD PROVIDE ATTENDEES WITH A STRONG UNDERSTANDING OF BASIC WATER QUALITY AND SAMPLING DESIGNS FOR BOTHAQUACULTURE AND NATURAL SYSTEM SITUATIONS. ATTENDEES WILL FOCUS ON WATER QUALITY STANDARDS AND REGULATIONS, EFFLUENTS, AND DISCUSS IMPAIRED WATER BODIES OF THE STATE.</p>

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0142	1	Eff: 12/11/2005	<p><b>HOW THE MEDIA WORKS AND HOW TO WORK WITH THE MEDIA</b></p> <p>0.4 CEU (4 hours)</p> <p>THE WORKSHOP WILL FEATURE ON-CAMERA MOCK INTERVIEWS CONDUCTED BY A MEDIA EXPERT. AFTER LEARNING INTERVIEW TECHNIQUES, PARTICIPANTS WILL HAVE AN OPPORTUNITY TO FEEL THE HOT LIGHTS AND FACE TOUGH QUESTIONS ABOUT NATURAL RESOURCE MANAGEMENT ISSUES. THE WORKSHOP LEADER IS EXPERIENCED AT TEACHING PEOPLE HOW TO DEAL WITH CONFRONTATIONAL MEDIA SCENARIOS IN A NON-INTIMIDATING ENVIRONMENT -- WITH THE ULTIMATE GOAL OF PRODUCING NATURAL RESOURCE PROFESSIONALS WHO ARE CAPABLE, COMFORTABLE AND CONFIDENT WHEN WORKING WITH NEWS MEDIA.</p>
0143	1	Eff: 9/10/2006	<p><b>TEACHING SCIENCE USING A MULTIDISCIPLINARY, NEPA-BASED APPROACH</b></p> <p>1.0 CEU (10 hours)</p> <p>PARTICIPANTS WILL BE ABLE TO TEACH STUDENTS TO USE MATHEMATICAL MODELS OF THE GREAT LAKES TO ILLUSTRATE AQUATIC ECOSYSTEM FUNCTIONS AND HOW IMPORTANT SYSTEM COMPONENTS INTERACT. PARTICIPANTS WILL BE ABLE TO ADAPT LEARNING EXERCISES PROVIDED IN THE WORKSHOP TO THEIR OWN TEACHING SITUATIONS IN ORDER TO IMPROVE STUDENT LEARNING ABOUT ENVIRONMENTAL SCIENCE. PARTICIPANTS WILL BE ABLE TO USE ENVIRONMENTAL IMPACT ANALYSIS AS A MEANS OF CONVEYING SCIENCE CONCEPTS TO THEIR STUDENTS. PARTICIPANTS WILL BE ABLE TO WRITE COMPETITIVE GRANT PROPOSALS TO FIND FUNDING TO HELP WITH THEIR TEACHING ACTIVITIES(E.G. FOR EQUIPMENT, TIME, ETC.)</p>

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0144	1	Eff: 9/10/2006	<p><b>LARVAL FISH SAMPLING AND IDENTIFICATION WORKSHOP</b></p> <p>1.5 CEU (15 hours)</p> <p>THIS WORKSHOP WILL EXPOSE PARTICIPANTS TO LARVAL FISH COLLECTION GEAR TYPES, THE ADVANTAGES AND LIMITATIONS OF USING EACH GEAR TYPE, AT LEAST 15 SPECIES OF FRESHWATER FISH LARVAE WILL BE AVAILABLE FOR IDENTIFICATION, EXAMPLES OF RELEVANT LITERATURE, AND SOURCES TO OBTAIN COPIES OF LITERATURE TO ASSIST IN IDENTIFICATION WILL BE AVAILABLE. PARTICIPANTS WILL DEVELOP TECHNIQUES FOR IDENTIFICATION OF LARVAL FISH APPLICABLE TO OTHER SPECIES THEY MAY ENCOUNTER IN FUTURE WORK.</p>
0145	1	Eff: 9/10/2006	<p><b>AN INTRODUCTION TO THE GREAT LAKES GIS PROJECT</b></p> <p>0.8 CEU (8 hours)</p> <p>OBJECTIVES OF THE WORKSHOP INCLUDE INCREASING FAMILIARITY WITH SPATIAL DATA ON FISHERIES AND HABITAT, INCREASING FAMILIARITY WITH THE GREAT LAKES GIS PROJECT, AND GAINING PROFICIENCY IN USING GIS SOFTWARE. AFTER THE WORKSHOP, PARTICIPANTS WILL BE ABLE TO USE ARCGIS SOFTWARE TO IMPORT AND EXPLORE THEIR OWN DATA, INTEGRATE THE DATA IN THE GREAT LAKE GIS DATABASE, PERFORM BASIC GIS OPERATIONS COMMON TO GREAT LAKES RESOURCE MANAGERS, AND CREATE SIMPLE MAPS THAT WOULD BE SUITABLE FOR PRESENTATIONS OR PUBLICATIONS.</p>
0146	1	Eff: 9/10/2006	<p><b>HYDROACOUSTIC TOOLS FOR FISH &amp; HABITAT ASSESSMENT WITH FIELD DEMONSTRATION</b></p> <p>1.2 CEU (12 hours)</p> <p>THE PARTICIPANT WILL GAIN AN UNDERSTANDING AND APPRECIATION FOR THE APPLICATION, POTENTIAL AND LIMITATIONS OF HYDROACOUSTIC ASSESSMENT TECHNIQUES AND EQUIPMENT. THIS WILL ENABLE THE PARTICIPANTS TO EVALUATE THEIR FISHERIES/ACQUATIC PROBLEMS AND THE POTENTIAL BENEFITS OF USING HYDROACOUSTICS VS. OTHER MODHODS.</p>

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0147	1	Eff: 9/11/2005	<p><b>CHOOSING THE APPROPRIATE BIOTELEMETRY TECHNOLOGY FOR AQUATIC RESEARCH</b> 8 hours (0.8 CEU's).</p> <p>8 HOURS (0.8 CEU'S). THIS COURSE WILL PRESENT RESEARCHERS AND THEIR MANAGERS WITH AN OVERVIEW OF THE TECHNOLOGIES CURRENTLY AVAILABLE, AS WELL AS TECHNOLOGIES UNDER DEVELOPMENT WHICH SHOW PROMISE IN THE FIELD OF AQUATIC RESEARCH. THIS COURSE WILL ALSO EXPLORE CURRENTLY AVAILABLE DATA MANAGEMENT TOOLS.</p>
0148	1	Eff: 2/2/2007	<p><b>CURRENT AND EMERGING PATHOGENS OF FISHES IN THE PACIFIC NORTHWEST</b> 8 hours (0.8 CEU's).</p> <p>8 HOURS (0.8 CEU'S). COMPLETION OF THE COURSE WILL PROVIDE PARTICIPANTS WITH: BASIC UNDERSTANDING OF THE PATHOGEN/HOST/ENVIRONMENT INTERRELATIONSHIP AND THE ROLE OF FISH; AN OVERVIEW OF COMMON AND EMERGING DISEASES (PARASITIC, BACTERIAL, VIRAL, FUNGAL) OF FISHES IN THE PACIFIC NORTHWEST, WITH EMPHASIS ON FRESHWATER SPECIES IN IDAHO; AND AN OVERVIEW OF FISHNECROPSY AND FISH HEALTH SAMPLING TECHNIQUES FOR WILD &amp; CULTURED STOCKS.</p>

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0149	1	Eff: 9/2/2007	<p><b>HOW TO GET THE RIGHT THINGS DONE AS WELL AS GET THINGS DONE RIGHT</b></p> <p>6 hours (0.6 CEU's).</p> <p>6 HOURS (0.6 CEU'S). THIS PRACTICAL WORKSHOP TEACHES IMMEDIATELY APPLICABLE TOOLS, TEMPLATES, AND PROVEN PRACTICES TO PLAN REAL-LIFE WORK PROJECTS. IN TODAY'S WORK ENVIRONMENT, PROJECT TEAMS ARE EXPECTED TO DELIVER SOLID OUTCOMES WITH TIGHT BUDGETS, HEAVY WORKLOADS, AND HIGH EXPECTATIONS FOR COOPERATIVE INVOLVEMENT OF MULTIPLE PLAYERS. THIS BOOT CAMP IS AN INTERACTIVE, RESULTS-ORIENTED WORKSHOP THAT TEACHES SKILLS FOR INCREASING EFFECTIVENESS (DOING THE RIGHT THINGS.), INCREASING EFFICIENCY (DOING THINGS RIGHT), AND, ALONG THE WAY, EXERTING LEADERSHIP FOR THE DIVERSE PLAYERS INVOLVED IN A PROJECT.</p>

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0150	1	Eff: 9/2/2007	<p><b>INTEGRATING GREEN AND GRAY INFRASTRUCTURE: USING HIGHWAY AGENCY PROCESSES TO CONSERVE AQUATIC ECOSYSTEMS.</b> 14 hours (CEU's).</p> <p>14 HOURS (CEU'S). THERE ARE THREE CORE ELEMENTS TO THE WORKSHOP: (1) INTRODUCTION TO THE ECO-LOGICAL FRAMEWORK (WHICH IS A GUIDE TO DEVELOPING GREEN INFRASTRUCTURE THROUGH A PLAN-DO-CHECK APPROACH, TO ELIMINATE OR REDUCE THE ENVIRONMENTALDEGRADATION OF GRAY, OR HARD INFRASTRUCTURE SUCH AS ROADS); (2) INTRODUCTION TO THE (TENTATIVE TITLED) DRAFT HEC 26 (FISH PASSAGE AT CULVERTS), WHICH DEMANDS INTEGRATION AND EXPLAINS THE ROLES OF FISHERIES SCIENCE, GEOMORPHOLOGY, AND HYDRAULIC AND GEOTECHNICAL ENGINEERING WHEN DESIGNING SUCH FACILITIES; AND (3) INTRODUCTION TO INDIRECT AND CUMULATIVE EFFECTS ANALYSIS BOTH FOR REVIEWING HIGHWAY AGENCY DOCUMENTS AND FOR SUPPORTING AQUATIC ECOSYSTEM PROTECTION, RESTORATION, ANDMAINTENANCE. THE LAST ELEMENT EMPHASIZES THE ANALYTIC SKILLS NEEDED TO USE THE NATIONAL ENVIRONMENTAL POLICY ACT AND ENDANGERED SPECIES ACT TO INFLUENCE DECISIONS.</p>
0151	1	Eff: 9/2/2007	<p><b>USING LIMITING FACTORS ASSESSMENTS AS THE BASIS FOR MANAGING AND RESTORING FISH POPULATIONS</b> 10 hours (1.0 CEU's).</p> <p>10 HOURS (1.0 CEU'S). PARTICIPANTS WILL BE ABLE TO RECOGNIZE SITUATIONS WHERE A LIMITING FACTORS ASSESSMENT WOULD BE USEFUL, AND BE ABLE TO EVALUATE THE MERITS OF ASSESSMENTS THAT HAVE BEEN CONDUCTED. PARTICIPANTS WILL GAIN FAMILIARITY WITH CONCEPTUAL AND QUANTITATIVE MODELS, AND WILL BE CAPABLE OF SELECTING APPROPRIATE MODELING APPROACHES FOR NEW SITUATIONS. ALL PARTICIPANTS SHOULD BE ABLE TO APPLY THE CONCEPTS OF A LIMITING ANALYSIS TO GUIDE RESTORATION STRATEGIES FOR FISH.</p>

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0152	1	Eff: 9/2/2007	<p><b>META-ANALYSIS IN FISHERIES SCIENCE</b></p> <p>12 hours (1.2 CEU's).</p> <p>12 HOURS (1.2 CEU'S). META-ANALYSIS IS A QUANTITATIVE METHOD FOR RESOLUTION OF CONFLICTING RESULTS ON A TOPIC IN THE SCIENTIFIC LITERATURE. THIS COURSE PROVIDES PARTICIPANTS WITH KNOWLEDGE AND SKILL NEEDED TO COPE WITH CONFLICTING INFORMATION WHEN REQUIRED TO MAKE A MANAGEMENT DECISION OR SCIENCE-BASED RECOMMENDATION. JORNEY-LEVEL MANAGERS AND RESEARCHERS ARE TARGETED FOR THIS COURSE.</p>
0153	1	Eff: 9/2/2007	<p><b>RIVER 2-D MODELING SHORT COURSE</b></p> <p>16 hours (1.6 CEU's).</p> <p>16 HOURS (1.6 CEU'S). TWO-DIMENSIONAL HYDRAULIC AND HABITAT MODELING IS A RECENT ADVANCEMENT IN TECHNOLOGY FOR CONDUCTING INSTREAM FLOW STUDIES. THIS CLASS SATISFIES NEEDS FOR JOURNEY LEVEL PROFESSIONALS TO GAIN SKILLS IN CONDUCTING TWO-DIMENSIONAL HYDRAULIC AND HABITAT MODELING.</p>
0154	1	Eff: 2/14/2007	<p><b>FRESHWATER MUSSEL ECOLOGY AND IDENTIFICATION</b></p> <p>8 hours (0.8 CEU's).</p> <p>8 HOURS (0.8 CEU'S). PARTICIPANTS WILL GAIN A BASIC UNDERSTANDING OF FRESHWATER MUSSEL LIFE HISTORY, HABITAT REQUIREMENTS, ECOLOGICAL ROLE AND VALUE, AND CONSERVATION. PARTICIPANTS WILL ALSO LEARN FRESHWATER MUSSEL IDENTIFICATION CHARACTERISTICS AND TECHNIQUES.</p>

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0155	1	Eff: 5/25/2007	<p><b>PLANNING &amp; EXECUTING SAFE &amp; EFFECTIVE ROTENONE &amp; ANTIMYCIN PROJECTS</b> 36 hours (3.6 CEU's).</p> <p>36 HOURS (3.6 CEU'S). THIS COURSE TARGETS FISHERIES PERSONNEL THAT MANAGE THE PLANNING AND EXECUTION OF FISH SAMPLING/CONTROL/ERADICATION PROJECTS USING ROTENONE AND ANTIMYCIN AND STRESSES THE PLANNING, PUBLIC INVOLVEMENT, SAFETY, AND APPLICATION TECHNIQUES FROM THE POPULAR AFS ROTENONE USE MANUAL.</p>
0156	1	Eff: 9/11/2005	<p><b>CHOOSING THE APPROPRIATE BIOTELEMETRY TECHNOLOGY FOR AQUATIC RESEARCH</b> 0.8 CEU's (8 Hours)</p> <p>THIS COURSE WILL PRESENT RESEARCHERS AND THEIR MANAGERS WITH AN OVERVIEW OF THE TECHNOLOGIES CURRENTLY AVAILABLE, AS WELL AS TECHNOLOGIES UNDER DEVELOPMENT WHICH SHOW PROMISE IN THE FIELD OF AQUATIC RESEARCH. THIS COURSE WILL ALSO EXPLORE CURRENTLY AVAILABLE DATA MANAGEMENT TOOLS.</p>
0157	1	Eff: 2/2/2007	<p><b>CURRENT AND EMERGING PATHOGENS OF FISHES IN THE PACIFIC NORTHWEST</b> 0.8 CEU's (8 Hours)</p> <p>COMPLETION OF THE COURSE WILL PROVIDE PARTICIPANTS WITH BASIC UNDERSTANDING OF THE PATHOGEN, HOST, ENVIRONMENT INTERRELATIONSHIP AND THE ROLE OF FISH HUSBANDRY AND MANAGEMENT IN THIS PROCESS. AN OVERVIEW OF COMMON AND EMERGING DISEASES ( PARASITIC, BACTERIAL, VIRAL, FUNGAL OF FISHES IN THE PACIFIC NORTHWEST, WITH EMPHASIS ON FRESHWATER SPECIES IN IDAHO. OVERVIEW OF FISH NECROPSY AND FISH HEALTH SAMPLING TECHNIQUES FOR WILD &amp; CULTURED STOCKS.</p>

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0158	1	Eff: 9/2/2007	<p><b>HOW TO GET THE RIGHT THINGS DONE RIGHT</b></p> <p>0.6 hours (6 Hours)</p> <p>THIS PRACTICAL WORKSHOP TEACHES IMMEDIATELY APPLICABLE TOOLS, TEMPLATES, AND PROVEN PRACTICES TO PLAN REAL-LIFE WORK PROJECTS. IN TODAY'S WORK ENVIRONMENT, PROJECT TEAMS ARE EXPECTED TO DELIVER SOLID OUTCOMES WITH TIGHT BUDGETS, HEAVY WORKLOADS, AND HIGH EXPECTATIONS FOR COOPERATIVE INVOLVEMENT OF MULTIPLE PLAYERS. THIS BOOT CAMP IS AN INTERACTIVE, RESULTS-ORIENTED WORKSHOP THAT TEACHES SKILLS FOR INCREASING EFFECTIVENESS (DOING THE RIGHT THINGS), INCREASING EFFICIENCY (DOING THINGS RIGHT), AND ALONG THE WAY, EXERTING LEADERSHIP FOR THE DIVERSE PLAYERS INVOLVED IN A PROJECT.</p>
0159	1	Eff: 9/2/2007	<p><b>INTEGRATING GREEN AND GRAY INFRASTRUCTURE: USING HIGHWAY AGENCY PROCESSES TO CONSERVE AQUATIC ESCOSYSTEMS</b></p> <p>1.4 CEU's (14 Hours)</p> <p>THERE ARE THREE CORE ELEMENTS TO THE WORKSHOP: (1) INTRODUCTION TOT HE ECOLOGICAL FRAMEWORK (WHICH IS A GUIDE TO DEVELOPING GREEN INFRASTRUCTURE THROUGH A PLAN DO CHECK APPROACH, TO ELIMINATE OR REDUCE THE ENVIRONMENTAL DEGRADATION OF GRAY, OR HARD INFRASTRUCTURE SUCH AS ROADS); (2) INTRODUCTION TO THE (TENTATIVE TITLED) DRAFT HEC 26 (FISH PASSAGE AT CULVERST), WHICH DEMANDS INTEGRATION AND EXPLAINS THE ROLES OF FISHERIES SCIENCE, GEOMORPHOLOGY, AND HYDRAULIC AND GEOTECHNICAL ENGINEERING WHEN DESIGNING SUCH FACILITIES; AND (3) INTRODUCTION TO INDIRECT AND CUMULATIVE EFFECTS ANALYSIS BOTH FORREVIEWING HIGHWAY AGENCY DOCUMENTS AND FOR SUPPORTING AQUATIC ECOSYSTEM PROTECTION, RESTORATION, AND MAINTENANCE. THE LAST ELEMENT EMPHASIZES THE ANALYTIC SKILLS NEEDED TO USE THE NATIONAL ENVIRONMENTAL POLICY ACT AND ENDANGERED SPECIES ACT TO INFLUENCE DECISIONS.</p>

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0161	1	Eff: 9/9/2007	<p><b>META ANALYSIS IN FISHERIES SCIENCE</b></p> <p>1.2 CEU's (12 Hours)</p> <p>META-ANALYSIS IS A QUANTITATIVE METHOD FOR RESOLUTION OF CONFLICTING RESULTS ON A TOPIC IN THE SCIENTIFIC LITERATURE. THIS COURSE PROVIDES PARTICIPANTS WITH KNOWLEDGE AND SKILL NEEDED TO COPE WITH CONFLICTING INFORMATION WHEN REQUIRED TO MAKE A MANAGEMENT DECISION OR SCIENCE-BASED RECOMMENDATION. JOURNEY -LEVEL MANAGERS AND RESEARCHERS ARE TARGETED FOR THIS COURSE.</p>
0162	1	Eff: 9/2/2007	<p><b>RIVER 2-D MODELING SHORT COURSE</b></p> <p>1.6 CEU's (16 Hours)</p> <p>TWO-DIMENSIONAL HYDRAULIC AND HABITAT MODELING IS A RECENT ADVANCEMENT IN TECHNOLOGY FOR CONDUCTING INSTREAM FLOW STUDIES. THIS CLASS SATISFIES NEEDS FOR JOURNEY LEVEL PROFESSIONALS TO GAIN SKILLS IN CONDUCTING TWO-DIMENSIONAL HYDRAULIC AND HABITAT MODELING.</p>
0163	1	Eff: 2/14/2007	<p><b>FRESHWATER MUSSEL ECOLOGY AND IDENTIFICATION</b></p> <p>0.8 CEU's (8 Hours)</p> <p>PARTICIPANTS WILL GAIN A BASIC UNDERSTANDING OF FRESHWATER MUSSEL LIFE HISTORY, HABITAT REQUIREMENTS, ECOLOGICAL ROLE AND VALUE, AND CONSERVATION. PARTICIPANTS WILL ALSO LEARN FRESHWATER MUSSEL IDENTIFICATION CHARACTERISTICS AND TECHNIQUES.</p>
0164	1	Eff: 5/25/2007	<p><b>PLANNING &amp; EXECUTING SAFE &amp; EFFECTIVE ROTENONE &amp; ANTIMYCIN PROJECTS</b></p> <p>3.6 CEU's (36 Hours)</p> <p>THIS COURSE TARGETS FISHERIES PERSONNEL THAT MANAGE THE PLANNING AND EXECUTION OF FISH SAMPLING/CONTROL/ERADICATION PROJECTS USING ROTENONE AND ANTIMYCIN AND STRESSES THE PLANNING, PUBLIC INVOLVEMENT, SAFETY, AND APPLICATION TECHNIQUES FROM THE POPULAR AFS ROTENONE USE MANUAL.</p>

Course Description Catalog  
Ace Transcript Service

Organization: American Fisheries Society

Sponsor code: AFS

Location code: 001

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Ace Course Number	Version	Dates	Title/Credit/Description
0165	1	Eff: 8/24/2007	<b>STREAM RESTORATION</b> 2.4 CEU's
2000	1	Eff: 9/27/2000	<b>SAMPLING DESIGN AND STATISTICS (VERSION 1)</b> 1.4 CEUS (14 HOURS) UPON COMPLETION, PARTICIPANTS WILL BE ABLE TO DESIGN AND SOUND SAMPLING STRATEGIES ON LENTIC SYSTEMS. PARTICIPANTS WILL ALSO BE ABLE TO APPLY VARIOUS STATISTICAL TECHNIQUES TO DATA.