



COURSES

Eagle Rock School

ER48 Summer 2009

Block Class Schedule

| BLOCK 1 – 1 st 5 weeks | |
|---|--|
| <i>Morning</i> | <i>All Day</i> |
| Fighting for Fair Food!! (Tina, Berna) For the Birds (Joan) The Poet's Paintbrush (Alyssa, Kassie) Riverwatch (Joe A.) Sports Galore (Mike, Heary) Summer Show 10 week class, 1/2 day first 3 weeks, all day second 3 weeks (Joe B, Liz, Carter) | Physics of Mountain Biking (Alyssa, Ryan, Kasid) |
| <i>Afternoon</i> | |
| The American Dream 2.0 (Alyssa, Heary) Civilizations Rock! (Tooy) Eco Art (Kass, Chasa) Existentialism 101 (Mike, Mic) Grad Writing Seminar (Dave, Liz) Sociology of Violence (Bernie) Summer Show Set Building (Joan, Joe B) | |

EXPLORE Week

| BLOCK 2 – 2 nd 5 weeks | |
|---|--|
| <i>Morning</i> | <i>All Day</i> |
| Sports Writing (Heary, Alyssa) Storytelling through Photography (Mike, Dave) | Colorado Rocks! (Ryan, Jesse B) Girl Power! (Alyssa, Kassie, Kasid) Helping Build Dingeeh (Russ, Tooy, Berni J) RMNP Internship (students already chosen) (Joe A.) Summer Show 10 week class, 1/2 day first 3 weeks, all day second 3 weeks (Joe B, Liz, Carter) |
| <i>Afternoon</i> | |
| 3 rd World Development (Mike, Mic) Back to Basics: Writing in Style (Alyssa, Berni) Think YOU'VE Got Problems?! (Kassie) | |

Note: The summer show is the only 10-week course; you must enroll in this class for the entire 10 weeks.



Eagle Rock School ER 48 Class Descriptions Summer 2009 Trimester



Fighting For Fair Food!! ER - 48 Morning 1st 5 Weeks

Classroom: Cinquefoil **Period:** Morning 1st 5 Weeks
Instructor(s): Tim Phelps
Fellow(s): Berta Guillen

Course Description

This course will look at the treatment of migrant workers starting with the Bracero Program of 1942 up to and including the struggles today of the Coalition of Imokalee Workers. We will look at the effects of NAFTA, the fast food industry and herbicide/pesticide use on these workers and get a perspective of their struggle by working on a farm one day each week.

ILP Graduation Requirements Possible

| | |
|--|--|
| Service Learning - Public Service Presentation | S & C - United States Government: International Issues |
| S & C - Civics: Community Action & Education Project | Writing - Essay of Explanation |
| S & C - Geography: Cultural Geography Project | |

ILP Notes:

For The Birds ER - 48 Morning 1st 5 Weeks

Classroom: Shooting Star **Period:** Morning 1st 5 Weeks
Instructor(s): Janet Johnson
Fellow(s):

Course Description

Throughout this course we will be researching bird breeding behavior in Rocky Mountain National Park as part of an ongoing, nation-wide study through Cornell University Lab of Ornithology. The research we conduct, along with the study of bird biology and behavior, will constitute the science portion of this course. In addition, we will investigate the environmental issues surrounding birds and their habitats, both in Rocky Mountain National Park and throughout the United States. Most of this class will be spent outside watching and learning about birds.

ILP Graduation Requirements Possible

| | |
|---|--|
| Environmental Studies - Environmental Issue: Presentation | Environmental Studies - Environmental Action Project |
| Science - Portfolio (1) | |

ILP Notes:

The Poet's Paintbrush ER - 48 Morning 1st 5 Weeks

Classroom: Lower Art **Period:** Morning 1st 5 Weeks
Instructor(s):
Fellow(s): Katie Leonard Andrea Fullington

Course Description

What images come to mind while reading Langston Hughes, Sylvia Plath or Pablo Neruda? How would you verbally express the paintings of Vincent Van Gogh, Pablo Picasso or Salvador Dali? In this class we will explore such ideas using both a paintbrush and a pen as our tools of expression. Students will study the art of famous painters in order to create poetry that fits the visualizations. In addition they will use famous poetry as a means of inspiration to create art. The class will culminate in an open mic event and gallery walk showcasing student work. Come prepared to aesthetically express yourself and be inspired by the work of others.

ILP Graduation Requirements Possible

| | |
|--|---|
| Art - Fine Art / Art History Portfolio | Writing - Creative Writing (Literature Class if Possible) |
| Literature - Discussion Skill: Participant (1) | |

ILP Notes:

Riverwatch**ER - 48****Morning 1st 5 Weeks****Classroom:** Anemone **Period:** Morning 1st 5 Weeks**Instructor(s):** Jon Anderson**Fellow(s):****Course Description**

Do you know what makes a river healthy? Are you interested in learning how to fly-fish?

In this class we will explore rivers and their health while engaging in the art of fly-fishing. We will collect water samples of the Big Thompson River, and then analyze their health through water quality testing back at Eagle Rock. Our data will then be used by both the Division of Wildlife and the Big Thompson Watershed Forum to develop and maintain water quality standards. We will also discuss the role of citizen-science as a form of service. Students interested in this class are expected to be prepared to be outside 2-3 days a week (for fly fishing and river water collection), hiking into remote areas of Rocky Mountain National Park to fish, and starting class 1-2 days a week early (either before morning exercise or gathering).

ILP Graduation Requirements Possible

Environmental Studies - Environmental Issue: Composition

Human Performance - Activities Presentation

Environmental Studies - Environmental Action Project

Service Learning - Portfolio

ILP Notes:**Sports Galore****ER - 48****Morning 1st 5 Weeks****Classroom:** Dojo/Pool/FoD **Period:** Morning 1st 5 Weeks**Instructor(s):** Jon Anderson**Fellow(s):** Henry Schrader Mike Dunn**Course Description**

In this course, students will explore sports from around the world and learn how to play them including: lawn recreation sports, pool sports, and sports for life. They will further their communication skills on the sports field by working on a team. Students will also create and plan an Eagle Rock fun day as well as an Estes Park fun day.

ILP Graduation Requirements Possible

Human Performance - Aquatic Skills

Human Performance - Activities Presentation

Service Learning - Portfolio

ILP Notes:**Summer Show****ER - 48****Morning 1st 5 Weeks****Classroom:** Schoolhouse **Period:** Morning 1st 5 Weeks**Instructor(s):** Jon Borodach**Fellow(s):** Liz Berliant Carter Cox**Course Description**

"A Midsummer Night's Dream" is a classic Shakespeare comedy complete with love triangles, mistaken identity, fairies, goblins and magical mischief. This summer, students will learn all aspects of theater production. While all students are expected to participate on stage in some way, they will have the opportunity to choose their desired level of input. Students will also have the chance to gain experience with costumes, scenery design, painting, make-up and musical aspects of the play. We will also have an integrated curriculum in which students can choose credit they want to earn. Students are expected to have a high level of commitment and enthusiasm to produce a successful performance.

ILP Graduation Requirements Possible

Performance - Public Performance

Performance - Rehearsal Period

Writing - Any Writing Documentation/ILP Credit Will be

Personal Growth - Portfolio I

Music - Any Music ILP can Apply

S & C - World History: Power Relations Project

Literature - Discussion Skill: Leader (1)

ILP Notes: Students will earn up to 5 credits (specified amounts in each discipline) as well as their performance and rehearsal credit.

The American Dream 2.0**ER - 48****Afternoon 1st 5 Weeks****Classroom:** Lichen **Period:** Afternoon 1st 5 Weeks**Instructor(s):** Russ Rendon**Fellow(s):** Andrea Fullington Henry Schrader**Course Description**

It has been said that the American Dream doesn't last through the night. Why then, do so many people spend their lives chasing after it? In this class we will examine the idea of the American dream from several angles including literature, film and hip-hop music. We'll be reading Arthur Miller's famous play, Death of a Salesman, as a starting point, then delving deeper to ask questions of ourselves and society. Does the American Dream still look the way it did when the concept first emerged? Does it look different for different types of people? Or perhaps, does the American Dream exist at all?

ILP Graduation Requirements Possible

Writing - Essay of Explanation in Literature Class

Writing - Persuasive Essay

Literature - Discussion Skill: Leader (1)

Literature - Discussion Skill: Participant (1)

S & C - United States History: Power Relations Project

ILP Notes: *Required Credits- 3 (Discussion Skills and Essay of Explanation). Optional Credits- 2 (Power Relations and Persuasive essay are optional)

Civilizations Rock!**ER - 48****Afternoon 1st 5 Weeks****Classroom:** Yarrow **Period:** Afternoon 1st 5 Weeks**Instructor(s):** Tony Ruiz**Fellow(s):****Course Description**

This course will offer students a chance to learn about three of the greatest civilizations in History: the Egyptian, the Greek, and the Roman. Using the PBS Empires series, students will be treated to extraordinary documentary footage accompanied by meaningful project-based activities. Please come prepared to think, discuss, and use your talents to express your understanding of these ancient and magnificent cultures.

ILP Graduation Requirements Possible

S & C - World History: Growth and Transition Project

S & C - World History: Political Theory Project

S & C - World History: Power Relations Project

S & C - World History: Technological Evolutions Project

ILP Notes: Only three (3) of these will be available.

Eco Art**ER - 48****Afternoon 1st 5 Weeks****Classroom:** Lower Art Building, **Period:** Afternoon 1st 5 Weeks**Instructor(s):****Fellow(s):** Katie Leonard Christi Kramer**Course Description**

Are you concerned with environmental situations? Do you want your art to raise awareness and appreciation for our natural resources? Eco artists explore their relationship with the natural world through art experiences and creations. Eco art is created to communicate, to stimulate dialogue, and to contribute to social transformation. In this class we will learn about several current issues affecting our environment and how our actions impact our natural habitats. We will explore different aspects of Eco Art, including appreciation of nature, ephemeral art (place-based art made to disappear or transform), sustainable art (made with organic or recycled materials), and art that conveys an environmental message.

ILP Graduation Requirements Possible

Art - Fine Art / Art History Portfolio

Environmental Studies - Environmental Issue: Composition

Literature - Discussion Skill: Participant (1)

Service Learning - Public Service Presentation

ILP Notes: Service Learning - Public Service Presentation: optional credit

Existentialism 101**ER - 48****Afternoon 1st 5 Weeks****Classroom:** Cinquefoil **Period:** Afternoon 1st 5 Weeks**Instructor(s):** Mo Elgazzar**Fellow(s):** Mike Dunn**Course Description**

If you have ever felt that the world is a strange and absurd place full of anxiety, then perhaps now is a good time to give meaning to your own life. We will delve deep into the liberating philosophy of Existentialism that accepts no excuses for failure or success. You need only to look in the mirror to blame or credit someone for inadequacy or accomplishment. We will explore this way of thinking through intense reading, writing, art, film and discussion.

ILP Graduation Requirements Possible

Writing - Persuasive Essay

Writing - Essay of Explanation in Literature Class

S & C - World History: Political Theory Project

Personal Growth - Portfolio I

ILP Notes: Other credit negotiated based on student ILP needs...**Graduate Writing Seminar****ER - 48****Afternoon 1st 5 Weeks****Classroom:** Sage **Period:** Afternoon 1st 5 Weeks**Instructor(s):** Dave Manzella GuestWriters**Fellow(s):** Liz Berlant**Course Description**

Through this 5 week course, students who are trying to graduate in ER48 or ER49 will be working towards completing their Major Research requirement. As an alternative to "Independent Study," our time will be spent in a structured writing workshop setting where we will support each other in finishing both Content and Organization of your project. Don't worry, there will be plenty of time for independent work. Students enrolling in this course should already have chosen a topic and begun their research.

ILP Graduation Requirements Possible

Writing - Late Career Research Project

Writing - Early Career Research Project

ILP Notes:**Sociology of Violence****ER - 48****Afternoon 1st 5 Weeks****Classroom:** Anemone **Period:** Afternoon 1st 5 Weeks**Instructor(s):****Fellow(s):** Berta Guillen**Course Description**

Violence. On a daily basis, violence occurs in our city streets and behind closed doors. Our primary focus in this class will be youth violence and gang culture. How did a gang like Mara Salvatrucha surge in following all over the United States when it's name implies the country of El Salvador? Is our society just as much a part of our gang problem and the violence itself? We will try to answer these questions and allow you to see that there are solutions. Through the works of former gang member turned activist, Stanley "Tookie" Williams, we will analyze this problem from a sociological perspective and determine how we can empower ourselves to create change in our own communities regarding youth violence.

ILP Graduation Requirements Possible

S & C - United States Government: Domestic Issues

S & C - Civics: Community Action & Education Project

Writing - Review (Book, Movie, CD, Show, Restaurant)

ILP Notes:

Summer Show Set Building**ER - 48****Afternoon 1st 5 Weeks**

Classroom: Redwood **Period:** Afternoon 1st 5 Weeks
Instructor(s): John Guffey Jon Borodach Karen Ikegami
Fellow(s): Carter Cox

Course Description

Students will gain basic woodworking and construction skills through planning and building the set for "A Midsummer Night's Dream." Through reading and discussing the play, students will grasp the plan for the actual set construction. Students will then build the set for the play. Knowledge and skills in design, spatial reasoning, geometry, organization, planning and construction as well as useful techniques in the care and handling of tools will be taught and practiced. The final assignment in this course will be to watch and critique a full performance of the play at the end of July.

ILP Graduation Requirements Possible

Writing - Review (Book, Movie, CD, Show, Restaurant) Service Learning - Portfolio
 Mathematics - Portfolio (1) Literature - Discussion Skill: Participant (1)

ILP Notes: Students may choose to pursue up to 3 credits from the options listed above.
 To receive Math and/or Service credit for this class students must attend a full performance of "A Mid Summer Night's Dream" (in July) and evaluate the performance

Physics Of Mountain Biking**ER - 48****All Day 1st 5 Weeks**

Classroom: Science Lab **Period:** All Day 1st 5 Weeks
Instructor(s): Kirstin Sizemore Karen Ikegami
Fellow(s): Ryan Morra Alyssa Chen

Course Description

How does a mountain bike work? What physical forces are at play while biking? In this course you will gain experience riding a mountain bike, learning proper maintenance of your bike while also learning about the mechanics of cycling through math and physics. Not only will you learn Newton's Three Laws of Motion - you will experience them first hand! Half of the class time will be spent completing labs that investigate forces, motion, and the laws of physics as applied to the sport of mountain biking. The other half of the class will be spent riding the trails of Estes Park and Boulder, and learning how to take care for an optimal riding experience! Even if you have never ridden a mountain bike, this course can be for you if you have a curious mind and desire to challenge yourself physically.

ILP Graduation Requirements Possible

Mathematics - Portfolio (1) Science - Portfolio (1)
 Human Performance - Activities Presentation

ILP Notes:**Sports Writing****ER - 48****Morning 2nd 5 Weeks**

Classroom: Sage **Period:** Morning 2nd 5 Weeks
Instructor(s): Jon Anderson
Fellow(s): Henry Schrader Andrea Fullington

Course Description

In Sports Writing, we will read a variety of different sports literature. The focus of this class will be on discussing the people who play sports and why they play them, in addition to committing yourself to being a full-time sports reporter. You will have the opportunity to cover a wide range of different sports, such as basketball, baseball and even ERS intramurals. Be prepared to spend an extensive amount of time interviewing and writing sports articles as we attempt to publish our own sport magazine to the community here at ERS. If you are interested in sports and want to learn more about covering them, then this is the class for you.

ILP Graduation Requirements Possible

Writing - Essay of Explanation Writing - Review (Book, Movie, CD, Show, Restaurant)
 Writing - Essay of Explanation in Literature Class Writing - Persuasive Essay

ILP Notes:

Storytelling through Photography**ER - 48****Morning 2nd 5 Weeks****Classroom:** Lower Art Building **Period:** Morning 2nd 5 Weeks**Instructor(s):** Dave Manzella Cindy Elkins**Fellow(s):** Mike Dunn**Course Description**

In this course, students will pursue creative expression of stories through photography. Students will learn to use the darkroom while choosing a theme and developing a black and white photography portfolio as well as a digital photography portfolio expressing creative stories surrounding this theme. Students should plan to do some hiking to explore the local landscapes and some short trips to explore the local cityscapes.

ILP Graduation Requirements Possible

Writing - Creative Writing (Literature Class if Possible)

Service Learning - Public Service Presentation

Art - Fine Art / Art History Portfolio

Technology - Multimedia Presentation

ILP Notes: Public Service Presentation credit is available but optional. Students should expect to receive at least 3 pieces of credit with maximum of 4 pieces.

3rd World Development**ER - 48****Afternoon 2nd 5 Weeks****Classroom:** Yarrow **Period:** Afternoon 2nd 5 Weeks**Instructor(s):** Mo Elgazzar**Fellow(s):** Mike Dunn**Course Description**

In this course explore ideas surrounding international development and its relationship to existentialist theory. Further explore the idea of responsibility and its relationship to effective development and begin to question notions surrounding non-governmental organizations, human rights, world power relations and global citizenship. Finally, create a personal link between the politics of development and your personal growth.

ILP Graduation Requirements Possible

Writing - Essay of Explanation

Writing - Persuasive Essay

S & C - United States Government: International Issues

S & C - United States History: Political Theory Project

Literature - Discussion Skill: Leader (1)

Literature - Discussion Skill: Participant (1)

Personal Growth - Portfolio I

ILP Notes: A total of 5 pieces of credit could be possible in this course. Students are eligible to receive one of the above S & C credits, and, if taken with Existentialism 101, are eligible to receive a personal growth portfolio. They are also eligible to receive both Literature

Back to Basics: Writing in Style**ER - 48****Afternoon 2nd 5 Weeks****Classroom:** Sage **Period:** Afternoon 2nd 5 Weeks**Instructor(s):** Dave Manzella**Fellow(s):** Andrea Fullington Berta Guillen**Course Description**

What exactly is it that makes good writing good? In this class we will be delving into the world of writing to discover what makes a good thesis statement, how to use transitional statements and why basic grammar is so necessary. We will also be taking a look at famous authors and poets to discover what makes a writer's style his/her own. This class will allow students to complete their early career research through researching a writer of their choice and determining what makes him/her so unique and creative. Beware: This class will be writing and research intensive so expect to be challenged. Also, come ready to explore the minds of others through literature and poetry.

ILP Graduation Requirements Possible

Writing - Early Career Research Project

Writing - Review (Book, Movie, CD, Show, Restaurant)

Writing - Creative Writing (Literature Class if Possible)

Literature - Discussion Skill: Leader (1)

Literature - Discussion Skill: Participant (1)

ILP Notes: *Required credit- 3 (Early Career Research project and Discussion skills) Optional- 2 (Review and Creative Writing will be optional)

Think YOU'VE Got Problems?!**ER - 48****Afternoon 2nd 5 Weeks****Classroom:** Shooting Star **Period:** Afternoon 2nd 5 Weeks**Instructor(s):** Karen Ikegami**Fellow(s):****Course Description**

Ever had a problem that seemed impossible to figure out? In this math class we will practice the art of problem solving. We will practice recognizing problems, making a plan of attack, and then working on a solution. We will practice the methods mathematicians use and see how they can be used by anyone to solve simple to complex problems. This class will grow and sharpen your problem-solving prowess and give you a strong foundation for logical thinking and algebra. You will learn about your strengths and weaknesses as a problem solver, set goals for your growth and development throughout the course, and finally learn to enjoy mathematics!!

ILP Graduation Requirements Possible

Mathematics - Portfolio (1)

ILP Notes:**Colorado Rocks!!****ER - 48****All Day 2nd 5 Weeks****Classroom:** Anemone/ Outside **Period:** All Day 2nd 5 Weeks**Instructor(s):** Jesse Beightol**Fellow(s):** Ryan Morra**Course Description**

Imagine... Climbing high above the ground entirely focused on your movement, all the while looking deep into the rocks for the stories they have to tell. This class is a combination of climbing, reading, and geology. Readings will include major sections of The Rock Warrior's Way and other texts related to important environmental issues. We will use the combination of rock climbing, geology, and the readings to examine CHANGE in both the natural world and in ourselves. Twice each week we will be climbing. Some climbing days we will need to be prepared to hike, carry group gear, and be outside all day.

ILP Graduation Requirements Possible

Human Performance - Activities Presentation

Science - Portfolio (1)

Environmental Studies - Environmental Issue: Composition

Environmental Studies - Environmental Issue: Presentation

Literature - Discussion Skill: Leader (1)

Literature - Discussion Skill: Participant (1)

ILP Notes: 4 Available credits: Human Performance - Activities Presentation (everyone is eligible)
 Science - Portfolio (1) (everyone is eligible)
 Environmental Studies - Environmental Issue: Composition OR Presentation (not both)

Girl Power!**ER - 48****All Day 2nd 5 Weeks****Classroom:** Science Lab **Period:** All Day 2nd 5 Weeks**Instructor(s):** Kirstin Sizemore**Fellow(s):** Katie Leonard Alyssa Chen**Course Description**

What does it mean to be a woman? How does society determine gender roles? What is feminism? In Girl Power! we will be exploring these questions and many more issues relating to women's history, health, and current status. We will use math as a tool to compare women's statistics throughout different times and places. Students will be partaking in outdoor adventure activities to expand their comfort zones and become stronger women.

ILP Graduation Requirements Possible

Human Performance - Activities Presentation

S & C - World History: Growth and Transition Project

Mathematics - Portfolio (1)

Service Learning - Public Service Presentation

S & C - Civics: Community Action & Education Project

S & C - United States Government: Domestic Issues

S & C - Geography: Cultural Geography Project

ILP Notes: Students can only go for one of the four societies and cultures credits. Maximum number of credits is four.

Helping Build Dinétah**ER - 48****All Day 2nd 5 Weeks****Classroom:** Cinquefoil **Period:** All Day 2nd 5 Weeks**Instructor(s):** Russell Rendón Tony/Alex Ruiz**Fellow(s):** Beth Jackson**Course Description**

In this class you'll learn first hand about Diné (Navajo) Culture and History and sustainable building techniques while building a straw bale house for a Medicine man on the Navajo Reservation. Be prepared to live in desert conditions, while doing hard physical labor under the same living standards as the other people on the Reservation. Be ready to dive into a whole different culture with an open mind and heart in order to help others in need. What you get out of this class really depends on how much you're willing to put into it.

ILP Graduation Requirements Possible

S & C - United States History: Growth and Transition

S & C - United States History: Political Theory Project

S & C - United States History: Power Relations Project

S & C - United States History: Power Relations Project

S & C - Geography: Cultural Geography Project

Service Learning - Portfolio

Environmental Studies - Environmental Issue: Composition

Environmental Studies - Environmental Action Project

ILP Notes: Only one of the four US History credits available

Only one of the Service Learning pieces of the portfolio available.

4 ILP requirements is the likely number a fully participating student will earn.

Rocky Mountain National Park Internship**ER - 48****All Day 2nd 5 Weeks****Classroom:** Lichen **Period:** All Day 2nd 5 Weeks**Instructor(s):** Jon Anderson**Fellow(s):****Course Description**

In this class you will have the exciting opportunity to do an internship with Rocky Mountain National Park. We are seeking motivated, independent, responsible, and hard working students that will work in the National Park this summer, for 2-3 days a week. Not only can this internship turn into a paycheck for you over your August/September break, but it can open up all kinds of career opportunities in the park service. This all day class will occur during the 2nd five weeks of the trimester. Students who are selected for the class will also be on an explore week trip that will have us visiting Glacier National Park and Grant Kohrs Ranch National Historic site.

ILP Graduation Requirements Possible**ILP Notes:** Depending on the type of internship, students will have the opportunity to design their own credit options.**Summer Show****ER - 48****All Day 2nd 5 Weeks****Classroom:** Schoolhouse **Period:** All Day 2nd 5 Weeks**Instructor(s):** Jon Borodach**Fellow(s):** Liz Berliant Carter Cox**Course Description**

"A Midsummer Night's Dream" is a classic Shakespeare comedy complete with love triangles, mistaken identity, fairies, goblins and magical mischief. This summer, students will learn all aspects of theater production. While all students are expected to participate on stage in some way, they will have the opportunity to choose their desired level of input. Students will also have the chance to gain experience with costumes, scenery design, painting, make-up and musical aspects of the play. We will also have an integrated curriculum in which students can choose credit they want to earn. Students are expected to have a high level of commitment and enthusiasm to produce a successful performance.

ILP Graduation Requirements Possible

Performance - Public Performance

Performance - Rehearsal Period

Writing - Any Writing Documentation/ILP Credit Will be

Personal Growth - Portfolio I

Music - Any Music ILP can Apply

S & C - World History: Power Relations Project

Literature - Discussion Skill: Participant (1)

ILP Notes: In the beginning of the course students will be expected to choose desired credit that they will work on over the summer. We will provide limitations on how much credit can be earned within each discipline and overall.