



## COLLEGE OF GRADUATE STUDIES

### Winter 2009-2010 Graduate Course Schedule

Please note that courses are subject to change. REGISTER EARLY to reserve your space!  
Please visit [plymouth.edu/graduate/directions](http://plymouth.edu/graduate/directions) for directions to courses held off campus.

#### Administration and Educational Leadership

##### AD - Administration

**AD5010.01**      **CRN: 20453**      **ORGANIZATIONAL LEADERSHIP IN SCHOOLS**  
**UPDATED**      Plymouth – Lamson Library 124      Marianne True      [mtrue@plymouth.edu](mailto:mtrue@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Monday** 5PM – 8PM      1/11, 1/18, 1/25, 2/1, 2/8

Students in the educational leadership program are strongly encouraged to take this course first in the educational leadership course sequence. Roles and functions of administrators in elementary and secondary schools will be addressed. A variety of theories will be analyzed and applied in the context of the dynamic milieu, personal and group biases, and the multivariate issues facing organizational life in schools.

**AD5800.01**      **CRN: 20411**      **PRACTICUM IN EDUCATIONAL LEADERSHIP: THE PRINCIPALSHIP**  
**NEW**      Plymouth      Christie Ahrens      [cahrens@plymouth.edu](mailto:cahrens@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard. Please note student must contact instructor ([cahrens@plymouth.edu](mailto:cahrens@plymouth.edu)) to arrange individual meeting dates and times.

A practical encounter with the administrative practices, strategies and policies presently used in the public schools. Practicum visitations are required as part of the course and will be especially designed to match the experience, occupational aspirations and interests of the student. Conference with the instructor and meetings with fellow students will provide for exchange of ideas and reports of observations. AD 5010 and AD 5020 recommended but not required. It is recommended that this course be taken near the end of the candidate's program.

#### EP - CAGS (Certificate of Advanced Graduate Studies)

**EP7020.01**      **CRN: 20409**      **COLLABORATIVE LEADERSHIP**  
**NEW**      Plymouth – Rounds Hall 124      Pamela Clark      [plclark@plymouth.edu](mailto:plclark@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Saturday** 9AM – 4PM      12/5, 1/9, 1/23, 2/6

In this course, students will explore major concepts related to developing partnerships and communities of learners. Course topics include the change process, forms of school and community governance, school culture, the concept of collaboration, and agencies and organizations involved in community programs and initiatives. Special attention is focused on planning and implementing system-wide and building-level networks. Students will develop and evaluate a framework for collaboration and demonstrate systems thinking. Typically the first course completed in the CAGS program.

**EP7800.01**      **CRN: 20405**      **PRACTICUM IN EDUCATIONAL LEADERSHIP**  
**UPDATED**      Plymouth      Phillip McCormack      [pgmccormack@plymouth.edu](mailto:pgmccormack@plymouth.edu)  
3 Credits  
Please note students must contact instructor ([pgmccormack@plymouth.edu](mailto:pgmccormack@plymouth.edu)) to arrange individual meeting dates and times.

A collaborative supervised field experience in one of several cooperating institutions or agencies. The purpose is to gain meaningful work experience as an administrator through applying knowledge learned in coursework to on-the-job situations. It is recommended that this course be taken near the end of the candidate's program.

#### EP - Doctor of Education (EdD) in Learning, Leadership, and Community

**EP8040.01**      **CRN: 20368**      **RESOURCE PLANNING & STEWARDSHIP**  
Plymouth – Lamson Library 124      George Tuthill      [gftuthill@plymouth.edu](mailto:gftuthill@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course is designed for doctoral students only and requires permission of the instructor prior to registration ([gftuthill@plymouth.edu](mailto:gftuthill@plymouth.edu)).  
**Saturday** 9AM – 4PM      12/12, 1/9, 1/23

Leaders are expected to develop policies and implement practices that maximize the financial, environmental, material, technological, and human resources of their organization. Through the investigation of case studies, site visitations, and research, students will explore exemplary practices and potential approaches for the best use of an organization's resources. Topics will include: budgetary practices with high accountability factors, energy programs, recycling resources, employing technology while containing costs, and innovative personnel practices.

## Art, Integrated Arts and Music

### AE - Art Education

**AE5060.01**      **CRN: 20301**      **PEDAGOGY & PLANNING IN SECONDARY LEVEL ART EDUCATION**  
Plymouth – Draper and Maynard Hall 311      Janet Sanguedolce      [jmsanguedolce@plymouth.edu](mailto:jmsanguedolce@plymouth.edu)  
3 Credits  
**Wednesday** 5PM – 9PM      12/9, 12/16, 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/17

This course provides extended study of holistic methodology and inquiry based on learning for art education and diverse student populations, with an emphasis on adolescent development and instructional planning at the middle and high school levels. Components include community and citizenship, multicultural education, diversity issues, and inclusion. Standards-based unit planning at the secondary level will address interdisciplinary and multicultural social themes. A 20-hour school observation and teaching component is required. Study will encompass content of undergraduate course AE 3060 and extend to an applied research project and expanded theoretical readings in art education.

### IN - Integrated Arts

**IN5100.01**      **CRN: 20339**      **EDUCATIONAL THEATRE: PROCESS TO PERFORMANCE**  
Plymouth      Patricia Lindberg      [plindber@plymouth.edu](mailto:plindber@plymouth.edu)  
3 Credits  
Please contact instructor ([plindber@plymouth.edu](mailto:plindber@plymouth.edu)) for additional course information.  
**Tuesday** 6PM – 8:30PM      1/5, 1/12  
**Sunday** 12:30PM – 5:30PM      1/3, 1/10, 1/17, 1/24, 1/31

Students will gain experience in the process of creating and presenting a community-based educational theatre piece for family audiences. Each practicum is individually tailored to meet student needs and expectations. Students will have an opportunity to work with a variety of theatre practitioners invested in the educational theatre process.

**IN5200.01**      **CRN: 20340**      **MULTIDISCIPLINARY ART EXPERIENCES FOR CHILDREN**  
Plymouth      Patricia Lindberg      [plindber@plymouth.edu](mailto:plindber@plymouth.edu)  
3 Credits  
Please contact instructor ([plindber@plymouth.edu](mailto:plindber@plymouth.edu)) for additional course information.  
**Saturday** 8AM – 3PM      1/16, 1/30  
**Sunday** 12:30PM – 5:30PM      1/3, 1/17, 1/24

Students will gain knowledge and experience developing quality arts experiences for children through participation in a major integrated arts project based either at the University or in the community. Following this experience, students will have the opportunity to develop an integrated arts project within their own classrooms or organizations using visual arts, music, movement, and drama to bring the curriculum to life. Class dates and times will be individualized for each student in order to ensure maximum participation.

**IN5210.01**      **CRN: 20341**      **GRADUATE PRACTICUM INTEGRATED ARTS**  
Plymouth      Patricia Lindberg      [plindber@plymouth.edu](mailto:plindber@plymouth.edu)  
3 Credits  
Please contact instructor ([plindber@plymouth.edu](mailto:plindber@plymouth.edu)) for additional course information.

A supervised practicum experience in a candidate's school, employment setting or at one of several cooperating institution or arts organizations in New Hampshire where additional experience in integrated arts can be gained and practiced. Commitment includes a negotiated number of hours per week and a series of journals, a portfolio, and meetings with the faculty supervisor.

**IN5560.01**      **CRN: 20449**      **ST:INTEGRATED ARTS CONFERENCE**  
**NEW**      Plymouth      Patricia Lindberg      [plindber@plymouth.edu](mailto:plindber@plymouth.edu)  
1 – 4 Credits  
Additional conference fee applies. Please contact instructor ([plindber@plymouth.edu](mailto:plindber@plymouth.edu)) for additional information.  
**Saturday** 8AM – 4:30PM      1/30

The goal of this practicum-based course is to give educators an opportunity to apply aspects of their experience at the 2010 Integrated Arts Conference themed around "Godspell" in their own classrooms. Students will create and implement an integrated arts project within their school or employment setting, documenting the experience through photos, reflections, and student work to share with other class members. This winter the conference will be held on Saturday, January 30, 2010 (8-4:30 pm) at the Silver Center. Additional class meeting dates & times will be individualized for each student and will include online journaling.

## Athletic Training

### AT - Athletic Training

**AT5875.01 CRN: 20451 ST:PRCPL STRGTH & CONDITIONING**Plymouth  
3 Credits

Keith Belmore

[k\\_belmore@plymouth.edu](mailto:k_belmore@plymouth.edu)Please contact instructor ([k\\_belmore@plymouth.edu](mailto:k_belmore@plymouth.edu)) for meeting dates & times

An indepth study of a particular topic, contemporary issue or concern in Athletic Training. The course will be taught by a specialist in the field related to the topic. May be repeated with a different topic. Use of WebCT for support material is expected.

**Business****BU - Business****BU5210.01 CRN: 20304 ECONOMIC ANALYSIS**Plymouth – Hyde Hall 127  
3 Credits [Syllabus](#)

Colleen Brickley

[cbrickle@plymouth.edu](mailto:cbrickle@plymouth.edu)**Tuesday** 6PM – 9:45PM 12/1, 12/8, 12/15, 1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16

Today's business climate demands managers who can make decisions involving the best use of an organization's scarce resources under conditions that change rapidly. This course demonstrates the power of problem-solving insights and uses a cross-functional approach. Topics to be covered include strategic pricing using game theory, forecasting techniques and demand estimation, cost analysis, linear programming and optimization under various market structures. Prerequisites: macroeconomics, microeconomics, and statistics competencies or permission of the instructor.

**BU5720.01 CRN: 20314 SEMINAR IN EXECUTIVE MANAGEMENT****UPDATED**Plymouth – Hyde Hall 127  
3 Credits [Syllabus](#)

Ross Humer

[rhumer@plymouth.edu](mailto:rhumer@plymouth.edu)**Thursday** 6PM – 9:30PM 12/3, 12/10, 12/17, 1/7, 1/14, 1/21, 1/28, 2/4, 2/11, 2/18

From a decision-makers point of view, students will participate in a seminar involving middle and upper-level managerial responsibilities, as well as discussions concerning 'state-of-the-art' methodologies appropriate to all levels of management. Case studies and group projects will be combined with informal lectures and discussions involving such areas as strategic planning, action planning techniques, policy-making, managerial ethics, decision-making methods, control systems and the integration of all resources for optimum performance. Prerequisite: Basic Management core courses (BU 5190, BU 5120 and BU 5210) and/or commensurate work experience.

**Computer Education****CE - Computer Education****CE5140.01 CRN: 20315 ELECTRONIC PORTFOLIO DEVELOPMENT & ASSESSMENT****UPDATED**Plymouth – Rounds Hall 107  
3 Credits [Syllabus](#)

Ethel Gaides

[e\\_gaides@plymouth.edu](mailto:e_gaides@plymouth.edu)

This course has an online component using Blackboard. Online sessions begin 12/1/09 and end 2/28/10.

**Tuesday** 6PM – 9PM 12/1, 12/15

This course is designed to investigate the principles of assessment educational technology that relate to the design, development, and assessment of electronic portfolios. Students will learn about the history, types, components, process, delivery, presentation, and assessment of electronic portfolios. Student will be expected to define the assessment approach, construct an electronic portfolio, and collaboratively design assessment tools that will be used to evaluate electronic portfolios. Additional areas of study in the course may include the influence of educational policy on the implementation of electronic portfolios, the role of the electronic portfolios in professional development and recertification, or innovate technologies used in electronic portfolio development.

**Counseling and School Psychology****CO - Counseling****CO5020.01 CRN: 20383 COUNSELING SKILLS****UPDATED**Plymouth  
3 Credits

Karen Hall-Renn

[kehall1@plymouth.edu](mailto:kehall1@plymouth.edu)

Please note that classes will meet on the 2nd floor of Highland Hall.

**Wednesday** 5PM – 8:45PM 12/9, 12/16, 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/17, 2/24

The course is designed to help students develop basic counseling skills. Through role play, practice interviews, and tape transcriptions, students will have the opportunity to learn and practice basic counseling skills. The relationships among theory, case conceptualizations, and counseling interventions will be examined. Ethical and culturally responsive practices will be emphasized. Prerequisites: CO 5260 and CO 5010 or SY 6010.

**CO5150.01 CRN: 20336 EATING DISORDERS CLINICAL**Plymouth  
1 – 3 Credits

Margaret Burckes-Miller

[margaret@plymouth.edu](mailto:margaret@plymouth.edu)Please note student must contact Dr. Burckes-Miller ([margaret@mail.plymouth.edu](mailto:margaret@mail.plymouth.edu)) prior to 10/15/09 to arrange dates and times.

This clinical experience is a capstone course for those enrolled in the eating disorders certificate program. Students will be able to choose a focus on awareness and prevention, and education experience or a clinical experience working in an eating disorders treatment facility for 120 hours. Prerequisite: 12 credits of eating disorders certificate program. Also presented as HL 5150.

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**CO5230.01**      **CRN: 20382**      **CAREER COUNSELING & DEVELOPMENT**  
Plymouth – Highland Hall 039      Gary Goodnough      [ggoodno@plymouth.edu](mailto:ggoodno@plymouth.edu)  
3 Credits      [Syllabus](#)  
**Monday** 5PM – 8:45PM      12/7, 12/14, 12/21, 1/4, 1/11, 1/25, 2/1, 2/8, 2/15

An introduction to career development theories and their application to the counseling process. Students will understand and utilize career information and assessments as they pertain to counseling and career development. Students will apply theory and practice to current or potential work settings. Prerequisite: CO 5010. There is a 20-hour pre-practicum field experience as part of this course.

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**CO5460.01**      **CRN: 20384**      **GROUP COUNSELING**  
**UPDATED**      Plymouth – Boyd Hall 005      Karen Hall-Renn      [kehall1@plymouth.edu](mailto:kehall1@plymouth.edu)  
3 Credits  
**Tuesday** 5PM – 8:45PM      12/15, 12/22, 1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16, 2/23

This course provides a comprehensive understanding of theory, practice, and ethics in group counseling across the lifespan within clinical, school, and other professional settings. This course provides students an opportunity to develop group counseling skills through classroom facilitation and supervision. This course also has a 10-hour experiential group counseling component, which is required for students obtaining their MEd in Counselor Education with a focus in Mental Health Counseling or School Counseling.

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**CO5560.01**      **CRN: 20362**      **ST:MIND BODY TECHNIQUES FOR STRESS & HEALTH**  
Plymouth – Draper and Maynard Hall 401      Margaret Burckes-Miller      [margaret@plymouth.edu](mailto:margaret@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Friday** 5PM – 9PM      12/4, 1/8  
**Saturday** 8:30AM – 4:30PM      12/5, 1/9  
**Sunday** 8:30AM – 2:30PM      12/6, 1/10

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**CO5790.01**      **CRN: 20385**      **INTERVENTIONS IN MENTAL HEALTH COUNSELING**  
Plymouth – Hyde Hall 435J      Gail Mears      [gmears@plymouth.edu](mailto:gmears@plymouth.edu)  
3 Credits  
**Thursday** 5PM – 8:45PM      12/10, 12/17, 1/14, 1/21, 1/28, 2/4, 2/11, 2/18, 2/25

This course examines clinical interventions and documentation in clinical mental health settings. Students will learn and practice clinical counseling skills appropriate to mental health settings, documentation procedures and assessment strategies. Contemporary models of brief treatment, mental health consultation and prevention will be covered. An emphasis will be placed on culturally responsive counseling. This course is designed to develop necessary entry-level mental health counseling skills. Prerequisites: CO5010, 5020, CO5260.

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**CO5850.01**      **CRN: 20386**      **SEMINAR & INTERNSHIP IN SCHOOL COUNSELING**  
Plymouth – Counseling Center      Gary Goodnough      [ggoodno@plymouth.edu](mailto:ggoodno@plymouth.edu)  
1 – 6 Credits  
**Thursday** 5:30PM – 7:30PM      12/3, 12/10, 12/17, 1/7, 1/28, 2/4, 2/11, 2/18

Personal, educational and career guidance and counseling experiences performed under supervision of a certified counselor and conducted in a public school setting. In addition to the required field experiences totaling 600 hours, students must attend seminar meetings on campus with fellow student interns and the Plymouth supervisor to exchange viewpoints and feedback. Designed to be the culminating experience in the Counselor Education program. Prerequisite: Completion of all required courses, school counseling and consent of instructor.

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**CO5880.01**      **CRN: 20387**      **SEMINAR & INTERNSHIP IN MENTAL HEALTH COUNSELING**  
**UPDATED**      Plymouth      Heather McNally      [hemcnally@plymouth.edu](mailto:hemcnally@plymouth.edu)  
3 Credits  
Please note that on-campus classes will meet 5:30-7:30 pm on the 2nd floor of Highland Hall on 12/3, 12/17, 1/14, 1/28, 2/11 and 2/25. The Concord classes will meet 6-8:00 pm on 12/10, 1/7, 1/21, 2/4 and 2/18.  
**Thursday** 5:30PM – 7:30PM      12/3, 12/10(6PM- 8PM), 12/17, 1/7(6PM- 8PM), 1/14, 1/21(6PM- 8PM), 1/28, 2/4(6PM- 8PM), 2/11, 2/18(6PM- 8PM), 2/25

A 900-hour clinical counseling experience under supervision and conducted in a mental health counseling setting. Students must attend an on-campus seminar with fellow student interns that provides an opportunity for case presentation and professional development. Designed to be the culminating experience in the Mental Health Counseling concentration. Students must provide evidence of liability insurance. Prerequisites: completion of all required courses in the Mental Health Counseling concentration and consent of the Plymouth internship supervisor. Variable and repeatable.

**SY6300.01**      **CRN: 20423**      **SOCIAL/EMOTIONAL/BEHAVIORAL ASSESSMENT**  
**NEW**      Plymouth – Highland Hall 039      Leo Sandy      [lsandy@plymouth.edu](mailto:lsandy@plymouth.edu)  
3 Credits      [Syllabus](#)  
**Tuesday** 5PM – 8:45PM      12/1, 12/8, 12/15, 12/22, 1/5, 1/12, 1/19, 1/26, 2/2, 2/9

To provide a clear, balanced presentation of the learner's social/emotional characteristics. The student will be introduced to the areas of assessment of behavior by interview, observation and norm-referenced techniques. Functional behavior assessment will also be addressed. Objective and projective techniques will be introduced and the student will have the opportunity to learn about the history and practical administration of these instruments.

**SY6800.01**      **CRN: 20439**      **SEMINAR & INTERNSHIP IN SCHOOL PSYCHOLOGY**  
**NEW**      Plymouth – Boyd Hall 005      Jonas Taub      [jtaub@plymouth.edu](mailto:jtaub@plymouth.edu)  
1 – 12      [Syllabus](#)  
Credits  
**Wednesday** 5PM – 8:45PM      12/2, 12/16, 1/13, 1/27, 2/10, 2/24

As the culminating component in the School Psychology Program, this field experience will be done in a public school setting under the supervision of a certified school psychologist. Students will also attend a seminar on campus to discuss their experiences, present psychological evaluations and interventions, and engage in mutual problem solving relative to dilemmas and issues encountered in the field experience. Prerequisites include completion of all required courses and permission of the internship instructor.

## Education

### ED - Education

**ED5010.01**      **CRN: 20323**      **PHILOSOPHY, ETHICS & EDUCATION**  
Plymouth      Allan DiBiase      [adibiase@plymouth.edu](mailto:adibiase@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard. Students must register by 1/15/10 and have winter gear and physical conditioning suitable for moderate difficulty snowshoeing in NH. Students registering must have permission of the instructor ([adibiase@plymouth.edu](mailto:adibiase@plymouth.edu)) and the ability to travel to off-campus locations. Students must contact the instructor via e-mail in advance of the first class to learn about the location of the first class. Students must be capable of 5-6 hilly miles in NH winter conditions. Detailed information about equipment and other requirements will be posted at [www.learningat.multiply.com](http://www.learningat.multiply.com).  
**Saturday** 9AM – 4PM      1/23, 1/30, 2/6, 2/13, 2/20, 2/27

A study of the historical, philosophical, and social-philosophic foundations of education. Emphasis is placed upon the ideas of the classical, medieval, Enlightenment, and post-Enlightenment periods that have influenced types of American educational systems relative to their mission and purpose. Analysis of how these systems have defined ethics and the characteristics of the virtuous person.

**ED5005.01**      **CRN: 20321**      **SOCIAL PSYCHOLOGY & MYTHOLOGY ACROSS CULTURES**  
Plymouth – Hyde Hall 435J      James McGarry      [jamesm@plymouth.edu](mailto:jamesm@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard. Online sessions begin 1/07/2010 and end 2/15/2010.  
**Wednesday** 5PM – 8PM      12/2, 12/9, 12/16, 1/6  
**Saturday** 9AM – 3PM      12/5, 12/12, 12/19

This course will provide an in-depth study of the social/cultural basis of behavior and examine the role of mythology as a vehicle for intrapersonal and interpersonal understanding. The major theoretical, empirical, and applied lines of work in the following topics in contemporary social psychology will be explored, including social cognition, interpersonal perception, attitudes, stereotyping and prejudice, the self, and interpersonal and group relations. Mythology will be employed as a mechanism for cross-cultural comparison and as a unifying construct to enhance multicultural understanding.

**ED5030.01**      **CRN: 20327**      **RESEARCH DESIGN**  
Plymouth – Rounds Hall 118      Dean Cascadden      [dcascadden@plymouth.edu](mailto:dcascadden@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Thursday** 6PM – 9PM      12/10, 12/17, 1/14, 1/21, 1/28, 2/11, 2/18, 2/25

Knowledge and understanding of the commonly accepted research designs. Study of research instruments and statistics used in educational research. Wide reading in various types of research design. Critical analysis of research design.

**ED5060.01**      **CRN: 20330**      **THEORIES OF LEARNING AND COGNITIVE DEVELOPMENT**  
Plymouth – Rounds Hall 118      Fran Rancourt      [francourt@plymouth.edu](mailto:francourt@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Tuesday** 5:30PM – 8:30PM      12/15, 1/12(5PM- 8:30PM), 1/26, 2/9

An overview of current theories concerning the brain, development, and learning. Analysis of developmental concepts from birth through adolescence and adulthood. Discussion of language acquisition, thinking and learning styles, multiple intelligence, and creativity. Topics include teaching, learning, and assessment issues related to cultural diversity, technology, and learning differences.

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**ED5210.01**      **CRN: 20372**      **GRADUATE PRACTICUM**  
Plymouth – Boyd Hall 005      Lynnette Lawrence      [lelawrence@plymouth.edu](mailto:lelawrence@plymouth.edu)  
1 – 6 Credits      [Syllabus](#)  
Students must submit an Internship/Practicum Confirmation form ([plymouth.edu/graduate/forms](http://plymouth.edu/graduate/forms)) at the time of registration. This practicum is for teaching field experience for students currently employed as teachers in their field in the Master of Education Elementary and Secondary Education programs ONLY. Students must have all course work for their program, including any required undergraduate prerequisites, completed before taking this course.  
**Monday** 5:30PM – 8:30PM      12/7, 1/11, 2/8

A supervised practicum experience in one of several cooperating institutions or agencies in New Hampshire. The purpose is to gain meaningful work experience through applying knowledge learned in previous course work to the on-the-job situation. Commitment includes a negotiated number of hours per week and participation in seminars. Supervision is by the institution or agency concerned, and by Plymouth faculty. Students anticipating more than three hours of credit should confer early in their program with the department chair to free up sufficient blocks of time. Permission of advisor, department chair and Associate Vice President is required.

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**ED5500.01**      **CRN: 20366**      **ST:SCIENCE METHODS: CURRICULUM & INSTRUCTION K-6**  
**UPDATED**      Plymouth – Rounds Hall 204      Melisa Spradley      [ldspradley@plymouth.edu](mailto:ldspradley@plymouth.edu)  
3 Credits      [Syllabus](#)  
**Thursday** 5PM – 8:30PM      12/3, 12/10, 12/17  
**Saturday** 9AM – 2PM      12/5, 12/12, 12/19

This science methods course will be based on the ideals espoused in constructivist education. Participants will "learn by doing" as we use inquiry, observation, discovery, and guided exploration to immerse ourselves in multi-level, standards-based science environments. Higher order problem-solving techniques, Socratic discussion groups, children's literature, reflection and assessment will offer multiple lenses through which we will view science content and processes. Each day will revolve around a different science topic, all of which will be naturally integrated within the three scientific areas, as well as within other disciplines. We will get messy; physically and intellectually. We will work hard, learn much and have great fun doing so. The course will offer numerous opportunities for each one of us to emerge as unique and adventurous science teachers and learners.

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**ED5960.01**      **CRN: 20370**      **INTERNSHIP IN TEACHER EDUCATION**  
Plymouth – Boyd Hall 005      Lynnette Lawrence      [lelawrence@plymouth.edu](mailto:lelawrence@plymouth.edu)  
1 – 9 Credits      [Syllabus](#)  
Students must submit an Internship/Practicum Confirmation form ([plymouth.edu/graduate/forms](http://plymouth.edu/graduate/forms)) at the time of registration.  
**Monday** 5:30PM – 8:30PM      12/7, 1/11, 2/8

Student teaching for students in the Master of Education Elementary or Secondary Education programs. Students must have all course work for the degree, including any required undergraduate prerequisites, completed before taking this course.

## English

### EN - English

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**EN5830.01**      **CRN: 20393**      **TEACHING LITERATURE FOR CULTURAL UNDERSTANDING**  
Plymouth – Rounds Hall 207      Megan Birch      [mlbirch@plymouth.edu](mailto:mlbirch@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Wednesday** 5:30PM – 8PM      12/2, 12/9, 12/16, 12/23, 12/30, 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/17, 2/24

This course provides an introduction to the use of multicultural literature appropriate for K-12 classes to increase cultural understanding. Students will apply a spectrum of intercultural sensitivity as a guide for working with their students. The course involves the planning and implementation of a unit of study involving the teaching of multicultural literature in the K-12 school and integrating writing and the arts.

## Health

### HL - Health Education

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**HL5150.01**      **CRN: 20335**      **EATING DISORDERS CLINICAL**  
Plymouth      Margaret Burckes-Miller      [margaret@plymouth.edu](mailto:margaret@plymouth.edu)  
1 – 3 Credits  
Student must contact Dr. Burckes-Miller ([margaret@mail.plymouth.edu](mailto:margaret@mail.plymouth.edu)) prior to 10/15/09 to arrange meeting dates and times.

This clinical experience is a capstone course for those enrolled in the eating disorders certificate program. Students will be able to choose a focus on awareness, prevention, and education experience or a clinical experience working in an eating disorders treatment facility for 120 hours. Prerequisite: 12 credits of Eating Disorders certificate program.

### HP - Health Promotion

**HP5090.01**      **CRN: 20361**      **MIND BODY TECHNIQUES FOR STRESS & HEALTH**  
Plymouth – Draper and Maynard Hall 404      Margaret Burckes-Miller      [margaret@plymouth.edu](mailto:margaret@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Friday** 5PM – 9PM      12/4, 1/8  
**Saturday** 8:30AM – 4:30PM      12/5, 1/9  
**Sunday** 8:30AM – 2:30PM      12/6, 1/10

The focus of this course will be to introduce the student to mind-body techniques for stress management and health issues. Some of the techniques will include yoga, breathing, meditation, progressive relaxation, imagery, and massage as well as an introduction to the field of integrative medicine. Some of the therapies discussed will include energy medicine, aromatherapy, and acupuncture. Will be accepted as one credit in stress management. Offered Spring Term of even years.

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**HP5210.01**      **CRN: 20468**      **FITNESS PRINCIPLES**  
**NEW**      Plymouth – Draper and Maynard Hall 406      Maria Melchionda      [mimelchionda@plymouth.edu](mailto:mimelchionda@plymouth.edu)  
1 Credit  
**Friday** 4:30PM – 9PM      2/19  
**Saturday** 9AM – 4PM      2/20

The fitness component is designed to provide the student the opportunity to experience, research, and develop a variety of fitness activities for use in his/her future career as a health educator. The elements of physical fitness and total body wellness will be discussed and applied in diverse ways. Each student will develop and compile fitness methods appropriate for a variety of populations and settings. Offered Spring Term of even years.

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**HP5230.01**      **CRN: 20467**      **SUBSTANCE ABUSE**  
**NEW**      Plymouth – Draper and Maynard Hall 406      Maria Melchionda      [mimelchionda@plymouth.edu](mailto:mimelchionda@plymouth.edu)  
1 Credit  
**Friday** 5:30PM – 9:30PM      2/5  
**Saturday** 9AM – 4PM      2/6

This course is designed to provide students with an overview of contemporary drug use and abuse. Course content includes the determinants of drug abuse psychological, physiological, societal and pharmacological aspects of drugs, prevention and treatment of drug addiction, as well as information about specific drugs.

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**HP5240.01**      **CRN: 20360**      **FIRST AID AND CPR**  
Plymouth – Draper and Maynard Hall 401      Margaret Burckes-Miller      [margaret@plymouth.edu](mailto:margaret@plymouth.edu)  
1 Credit  
**Monday** 5PM – 9:30PM      1/4, 1/11  
**Wednesday** 5PM – 9PM      1/6

First Aid and CPR is designed to certify individuals in cardiopulmonary resuscitation and basic first aid. Includes breathing and cardiac emergencies for adults, children and infants, and advanced airway management skills. Students will have the opportunity to be certified in First Aid and CPR at the end of the course. Offered Spring Term of even years.

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**HP5250.01**      **CRN: 20420**      **CONSUMER HEALTH**  
**NEW**      Plymouth      Maria Melchionda      [mimelchionda@plymouth.edu](mailto:mimelchionda@plymouth.edu)  
1 Credit  
This is an online course using Blackboard. Online sessions begin 12/1/2009 and end 2/28/2010.

The focus of this course is to identify content, resources, materials, and instructional strategies for providing consumer education to various populations. Students will discuss key issues including legal and ethical considerations, curriculum development and resources for the school and community setting. The relationship of consumerism and health will be the underlying theme of this professional preparation course. This is an online course and is offered each term.

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**HP5560.01**      **CRN: 20359**      **CPR/AED AND FIRST AID INSTRUCTOR**  
Plymouth – Draper and Maynard Hall 404      Margaret Burckes-Miller      [margaret@plymouth.edu](mailto:margaret@plymouth.edu)  
1 Credit  
**Friday** 5PM – 9PM      1/15, 1/22  
**Saturday** 8:30AM – 12:30PM      1/16  
**Sunday** 8:30AM – 3:30PM      1/17

The course is designed to train students as first aid and CPR instructors. Upon successful completion of the course students will be eligible to receive a certificate as an instructor for first aid, CPR and AED. Prerequisite; Current certification in Adult, Child and Infant CPR and Standard First Aid.

**HS5560.01**      **CRN: 20379**      **ST:CRISIS MOMENTS IN POLITICAL CULTURE**  
Plymouth – Rounds Hall 303      Krisan Evenson      [klevenson@plymouth.edu](mailto:klevenson@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Tuesday** 7:30PM – 9PM      12/8, 12/15, 1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16, 2/23  
**Wednesday** 5PM – 8PM      12/2, 12/9, 12/16, 1/6, 1/13, 1/20

Political culture is a set of shared values, traditions, significant behaviors, power relationships, and common attributes. Under normal conditions, these characteristics are passed from one generation to the next. But there are moments in every national history when sudden changes in a political culture threaten a country's heritage. At these times, countries decide to adapt, withstand, or submit to the crisis. This course explores several such moments to understand how heritage and political culture are inextricably entwined.

## PO - Political Science

**PO5130.01**      **CRN: 20380**      **ST:CRISIS MOMENTS IN POLITICAL CULTURE**  
Plymouth – Rounds Hall 303      Krisan Evenson      [klevenson@plymouth.edu](mailto:klevenson@plymouth.edu)  
3 Credits  
This course has an online component using Blackboard.  
**Tuesday** 7:30PM – 9:30PM      12/8, 12/15, 1/5, 1/12, 1/19, 1/26, 2/2, 2/9, 2/16, 2/23  
**Wednesday** 5PM – 8PM      12/2, 12/9, 12/16, 1/20, 1/27, 2/3, 2/10, 2/17, 2/24

Political culture is a set of shared values, traditions, significant behaviors, power relationships, and common attributes. Under normal conditions, these characteristics are passed from one generation to the next. But there are moments in every national history when sudden changes in a political culture threaten a country's heritage. At these times, countries decide to adapt, withstand, or submit to the crisis. This course explores several such moments to understand how heritage and political culture are inextricably entwined.

## Library Media

### LM - Library Media Studies

**LM5210.01**      **CRN: 20345**      **PRACTICUM IN SCHOOL MEDIA**  
Plymouth      Elaine Allard      [eallard@plymouth.edu](mailto:eallard@plymouth.edu)  
3 Credits  
Please contact instructor ([eallard@plymouth.edu](mailto:eallard@plymouth.edu)) to arrange meeting dates and times.

The practicum is to provide the student with a supervised field experience in one of several cooperating institutions or agencies. The purpose is to gain meaningful work experience through applying knowledge learned in previous coursework to the on-the-job situation. Commitment includes a negotiated number of hours per week. Supervision is by the institution or agency concerned and by PSU faculty.

## Mathematics

### MG - Graduate Math

**MG5760.01**      **CRN: 20367**      **ST:MATH METHODS:CURRICULUM & INSTRUCTION K-6**  
**UPDATED**      Plymouth – Rounds Hall 118      Melisa Spradley      [ldspradley@plymouth.edu](mailto:ldspradley@plymouth.edu)  
3 Credits      [Syllabus](#)  
Please note that all Wednesday classes will meet in Rounds 014 and Saturday classes in Rounds 118.  
**Wednesday** 5PM – 8:30PM      2/3, 2/10  
**Saturday** 9AM – 2PM      1/23, 2/6, 2/13

This mathematics methods course will be based on the ideals espoused in constructivist education. Participants will "learn by doing" as we use manipulatives, inquiry, observation, discovery, and guided exploration to immerse ourselves in multi-level, standards-based mathematics environments. Higher order problem-solving techniques, Socratic discussion groups, children's literature, reflection and assessment will offer multiple lenses through which we will view mathematics content and processes. Each day will revolve around two different areas of elementary mathematics, extending the learning through grades K-6. We will work hard, learn much and have great fun doing so. The course will offer numerous opportunities for each one of us to emerge as unique and adventurous mathematics teachers and learners.

## Reading and Writing

### RL - Reading and Writing

**RL5014.01**      **CRN: 20404**      **READING, WRITING, & LITERATURE**  
Plymouth – Boyd Hall 005      Edith Patridge      [epatridge@plymouth.edu](mailto:epatridge@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Saturday** 9AM – 3PM      1/9, 1/23, 1/30, 2/6, 2/13, 2/20

This course is designed as an active and reflective experience of reading and process writing. Students will be immersed in literature and process writing as they develop a portfolio of their own work as lifelong readers and writers. They will review theory and practice regarding process writing, writing to learn, and writing across the curriculum. They will work in the format of the reading/writing connection to explore a range of non-print and print genres, including but not limited to fiction, nonfiction, poetry, fantasy, timed writing to a prompt and multicultural literature. Further topics to be examined in this course are the development of practical classroom applications of creating a literate environment, supporting the reading/writing connection in the classroom, exploration of the question 'what makes good writing', assessment in the reading/writing workshop, the mechanical aspects of writing, and the needs of diverse learners. This course is recommended for students in the Reading and Writing M.Ed. Program and the Reading and Writing Certification Program, as well as for any other students who teach reading and writing in the elementary, middle, and secondary schools.

**RL5710.01**      **CRN: 20349**      **ADVANCED DIAGNOSTIC TESTING & THE IMPROVEMENT IN READING & WRITING**  
**UPDATED**      Plymouth – Rounds Hall 124      Pearl Sandy      [psandy@plymouth.edu](mailto:psandy@plymouth.edu)  
 3 Credits      [Syllabus](#)      Madonna Ciocca      [m\\_ciocca@plymouth.edu](mailto:m_ciocca@plymouth.edu)  
**Thursday** 5PM – 8PM      1/7, 1/28, 2/4, 2/18, 2/25  
**Saturday** 9AM – 3PM      1/16, 2/13

Diagnostic and instructional issues presented include: reading and writing development; factors related to reading and writing disabilities; varied approaches to individual diagnosis and proven emergent reading, corrective, standardized tests and authentic assessments currently used in reading and special education programs. Seminars in conjunction with the practicum emphasize peer coaching and the application of current literacy research. May be repeated with the permission of the instructor.

**RL5830.01**      **CRN: 20350**      **PRACTICUM IN DIAGNOSTIC TESTING & REMEDIAL READING**  
 Plymouth – Rounds Hall 118      Pearl Sandy      [psandy@plymouth.edu](mailto:psandy@plymouth.edu)  
 3 Credits      [Syllabus](#)  
 Please contact instructor ([psandy@plymouth.edu](mailto:psandy@plymouth.edu)) prior to first class to schedule dates and times.  
**Thursday** 4:30PM – 5:30PM      1/7

Analysis of the factors contributing to reading disability. Diagnosis, teaching, curriculum planning and use of informal and formal assessments with small groups of readers in K-12 settings and supervised tutorial situations. Discussions with literacy professionals and paraprofessionals, and participation in professional development workshops. Seminars promote reflection on instructional practices and the range of services available for readers across the developmental continuum.

## Sciences

### BI - Biology

**BI5090.01**      **CRN: 30330**      **CELL STRUCTURE AND FUNCTION**  
 Plymouth – Boyd Hall 236      Frederick Prince      [fprince@plymouth.edu](mailto:fprince@plymouth.edu)  
 4 Credits  
 Please note that labs meet on Wednesdays at 2:25 pm in Boyd 123.  
**Monday** 1:25PM – 2:15PM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Wednesday** 1:25PM – 2:15PM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 2/3(2:25PM – 3:30PM), 2/10(2:25PM – 3:30PM),  
 2/17(2:25PM – 3:30PM), 2/24(2:25PM – 3:30PM), 3/3(2:25PM – 3:30PM),  
 3/10(2:25PM – 3:30PM), 3/17(2:25PM – 3:30PM), 3/31, 4/7, 4/14, 4/21, 4/28, 5/5,  
 3/31(2:25PM – 3:30PM), 4/7(2:25PM – 3:30PM), 4/14(2:25PM – 3:30PM),  
 4/21(2:25PM – 3:30PM), 4/28(2:25PM – 3:30PM), 5/5(2:25PM – 3:30PM)  
**Friday** 1:25PM – 2:15PM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7

Addresses the diversity of form and function found in the basic units of life, the cells. The first segment centers on the various techniques, especially electron microscopy, which are used to study microscopic anatomy. The components, organelles, which comprise a "generalized cell" are examined and their functional relationships discussed. The second segment centers on the structural differences between tissues of the body (classical histology). Finally, this knowledge of cell and tissue structure will be employed to understand organs and organ systems. This course will not be purely morphological. The development and functional properties of these systems will be examined. There will be a laboratory component in this course. Falls.

**BI5100.01**      **CRN: 30335**      **BIOLOGY COLLOQUIUM**  
 Plymouth – Boyd Hall 001      Leonard Reitsma      [leonr@plymouth.edu](mailto:leonr@plymouth.edu)  
 1 Credit  
**Friday** 2:30PM – 3:30PM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7

Course is comprised of lectures featuring prominent speakers from a variety of institutions.

**BI5380.01**      **CRN: 30331**      **AVIAN ECOLOGY**  
 Plymouth – Boyd Hall 236      Leonard Reitsma      [leonr@plymouth.edu](mailto:leonr@plymouth.edu)  
 3 Credits  
**Monday** 10:10AM – 11AM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Wednesday** 10:10AM – 11AM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5  
**Friday** 10:10AM – 11AM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7

Avian Ecology is a field-oriented course that focuses on bird interactions with each other and their environment as a medium for understanding field ecological research. Students become familiar with local bird identification, give presentations on selected topics, assist in banding birds, and carry out their own individual research projects under the guidance of a researching avian ecologist.

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**BI5560.01**      **CRN: 30332**      **ST:CURRENT ENVIRONMENTAL ISSUES**  
Plymouth – Boyd Hall 236      Leonard Reitsma      [leonr@plymouth.edu](mailto:leonr@plymouth.edu)  
3 Credits  
**Tuesday** 3:30PM – 6PM      2/2, 2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4

A capstone course in which students and faculty examine the main issues that face ecologists, biologists and policymakers regarding the health of the biosphere. The current state of scientific understanding of such issues as global warming, ozone depletion, acid deposition, loss of biodiversity, pollution and desertification is elucidated through a combination of lectures, student presentations, seminars and discussions.

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**BI5770.01**      **CRN: 30333**      **ANIMAL PHYSIOLOGY**  
Plymouth – Boyd Hall 117      Christopher Chabot      [chrisc@plymouth.edu](mailto:chrisc@plymouth.edu)  
4 Credits  
Please note that labs are scheduled for Tuesdays.  
**Monday** 12:20PM – 1:10PM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Tuesday** 11AM – 1:45PM      2/2, 2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4  
**Wednesday** 12:20PM – 1:10PM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5  
**Friday** 12:20PM – 1:10PM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7

This course will examine the various systems of the body including the respiratory, cardiovascular, digestive and excretory systems using a comparative approach. Discusses the control of these systems and behavior by the nervous and endocrine systems. Inherent is an analysis of an interaction between the mechanisms of homeostatic regulation and the environment. Laboratory investigations using local animals illustrate some of the principles outlined in lecture through the use of student and/or instructor generated hypothesis testing and uses modern equipment including computers, Data Acquisition Units, amplifiers, transducers, stimulators and activity monitors. Spring of even years.

### ESP - Environmental Science and Policy

**ESP5500.01**      **CRN: 30336**      **ST:COMMUNITY RESEARCH EXPERIENCE**  
Plymouth – Hyde Hall 416      Mark Okrant      [mokrant@plymouth.edu](mailto:mokrant@plymouth.edu)  
3 Credits      Thaddeus Guldbrandsen      [tcguldbrandsen@plymouth.edu](mailto:tcguldbrandsen@plymouth.edu)  
This course requires permission of the instructor prior to registration ([mokrant@plymouth.edu](mailto:mokrant@plymouth.edu) or [tcguldbrandsen@plymouth.edu](mailto:tcguldbrandsen@plymouth.edu)).  
**Tuesday** 3:30PM – 6PM      2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4, 5/11, 5/18

This course engages students in experiential learning about the challenges of working in interdisciplinary teams and perspectives. Provides students with opportunities to research significant issues of local or regional scale using multiple perspectives in a collaborative. Each spring one or more research teams are formed to conduct a project often developed in cooperation with an NGO or government agency to meet the needs of that organization and/or a community in the region. The projects are not theoretical or broad in scope, but rather focused on the kinds of problems that graduates might expect to face.

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**ESP5710.01**      **CRN: 30334**      **SCIENCE COLLOQUIUM SERIES**  
Plymouth – Boyd Hall 001      Patrick Bourgeron      [psbourgeron@plymouth.edu](mailto:psbourgeron@plymouth.edu)  
1 Credit  
**Wednesday** 3:45PM – 5PM      2/10, 2/17, 2/24, 3/10, 3/17, 3/31, 4/14, 4/21, 4/28, 5/5, 5/12

This graduate seminar is designed to be a core course in the Environmental Science and Policy program. It will focus on the analysis of contemporary issues in environmental science. Specific topics will vary from year to year and will be tailored to the interests of the students enrolled and faculty interests. The course will create a foundation of knowledge of contemporary issues. It is also expected that it will help students refine their research interests as well as be exposed to new ideas through interaction with others in the course.

### EV - Environmental Studies

**EV5560.01**      **CRN: 30436**      **ST:PHYSICAL GEOGRAPHY OF NATIONAL PARKS**  
Plymouth – Memorial Hall 010      Bryon Middlekauff      [bryonm@plymouth.edu](mailto:bryonm@plymouth.edu)  
3 Credits  
**Monday** 1:25PM – 2:15PM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10, 5/17  
**Wednesday** 1:25PM – 2:15PM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5, 5/12, 5/19  
**Friday** 1:25PM – 2:15PM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7, 5/14, 5/21

A survey of the physical geography of the United States through a sample of our National Parks. These Parks have within them examples of many diverse landforms and demonstrate the tectonic and geomorphic processes responsible for the evolution of landforms throughout the United States. Using the example of the National Parks, examines the tectonics of the Eastern and Western United States, the effects of alpine and continental glaciation and periglacial processes, and the impact of fluvial processes within the context of landscape regions such as the Appalachians, the Great Plains, the Rocky Mountains, and the Sierra-Cascades system.

### MT - Meteorology

**MT5110.01**      **CRN: 30301**      **AIR QUALITY**  
 Plymouth – Boyd Hall 306      Lourdes Aviles Bramer      [lavilesbramer@plymouth.edu](mailto:lavilesbramer@plymouth.edu)  
 3 Credits  
**Tuesday** 2PM – 3:15PM      2/2, 2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4, 5/11  
**Thursday** 2PM – 3:15PM      2/4, 2/11, 2/18, 2/25, 3/4, 3/11, 3/18, 4/1, 4/8, 4/15, 4/22, 4/29, 5/6, 5/13

This course addresses various aspects of the air quality subject. We will discuss the types of air pollutants, their sources, chemistry, and effects on humans and the environment. We will analyze how meteorological conditions enhance or reduce the air quality of a specific region. We will produce air quality forecasts. We will also discuss current issues such as air quality monitoring and air pollution regulations. PREREQ: MT4300 and any computer programming course.

**MT5200.01**      **CRN: 30302**      **TRANSPORTATION METEOROLOGY**  
 Plymouth – Boyd Hall 306      Eric Hoffman      [ehoffman@plymouth.edu](mailto:ehoffman@plymouth.edu)  
 3 Credits  
**Monday** 9AM – 11:30AM      5/24, 6/7, 6/14  
**Tuesday** 9AM – 11:30AM      5/25, 6/1, 6/8, 6/15  
**Wednesday** 9AM – 11:30AM      5/26, 6/2, 6/9, 6/16  
**Thursday** 9AM – 11:30AM      5/27, 6/3, 6/10, 6/17

Students will learn the various weather systems that affect different modes of transportation. In particular we will study road weather, aviation meteorology, and oceanic meteorology. Advanced weather analysis and forecasting skills will be applied in order to make forecasts tailored to various industries. PREREQ: MT4300, MT4320 and any computer programming course.

**MT5300.01**      **CRN: 30303**      **SYNOPTIC METEOROLOGY II**  
 Plymouth – Boyd Hall 306      Eric Hoffman      [ehoffman@plymouth.edu](mailto:ehoffman@plymouth.edu)  
 4 Credits  
**Monday** 12:30PM – 3:15PM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Wednesday** 12:30PM – 3:15PM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5, 5/12

Intermediate weather analysis and forecasting techniques are used to understand synoptic-scale weather systems with an emphasis on structure and evolution of extratropical cyclones. Topics include: climatology of mid-latitude surface and upper-air flow regimes and extratropical cyclogenesis; life cycle of extratropical cyclones including frontal evolutions; application of hydrodynamical equations and balanced systems to weather analysis and forecasting; ageostrophic winds; and jet stream circulations. Students participate in weekly exercises culminating in a quantitative precipitation forecasting exercise at the end of the term. This course is co-listed with MT4300 in the undergraduate curriculum.

**MT5320.01**      **CRN: 30312**      **DYNAMIC METEOROLOGY II**  
 Plymouth – Boyd Hall 306      James Koermer      [koermer@plymouth.edu](mailto:koermer@plymouth.edu)  
 3 Credits  
**Monday** 9:05AM – 9:55AM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Wednesday** 9:05AM – 9:55AM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5, 5/12  
**Friday** 9:05AM – 9:55AM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7, 5/14

This course will cover the advanced topics in geophysical fluid dynamics including circulation theory, vorticity, planetary boundary layer, quasi-geostrophic theory and introductory numerical modeling concepts. Spring term. This course is co-listed with MT4320 in the undergraduate curriculum.

**MT5340.01**      **CRN: 30313**      **RADAR METEOROLOGY**  
 Plymouth – Boyd Hall 306      Samuel Miller      [stmiller@plymouth.edu](mailto:stmiller@plymouth.edu)  
 3 Credits  
**Monday** 11:15AM – 12:05PM      2/1, 2/8, 2/15, 2/22, 3/1, 3/8, 3/15, 3/29, 4/5, 4/12, 4/19, 4/26, 5/3, 5/10  
**Wednesday** 11:15AM – 12:05PM      2/3, 2/10, 2/17, 2/24, 3/3, 3/10, 3/17, 3/31, 4/7, 4/14, 4/21, 4/28, 5/5, 5/12  
**Friday** 11:15AM – 12:05PM      2/5, 2/12, 2/19, 2/26, 3/5, 3/12, 3/19, 4/2, 4/9, 4/16, 4/23, 4/30, 5/7, 5/14

This course will provide a broad overview of the hardware/theory behind the application of meteorological radar data. The course will begin with a short history of radar meteorology, which will be followed by a brief summary of the radar hardware and theory applicable to meteorological use and interpretation - beam spreading, ducting, anomalous propagation, etc. The differences between reflectivity, Doppler, and polarimetric measurements will also be discussed. Much of the remainder of the course will be used to cover the different levels of NEXRAD data, the available products for each level, algorithms used to automatically analyze these data, and application to real world problems, such as quantitative precipitation estimates and severe local storms detection. PREREQ: MT4300, MT4320, MT4410.

**MT5550.01**      **CRN: 30314**      **ST:MESOMETEOROLOGY**  
 Plymouth – Boyd Hall 306      James Koermer      [koermer@plymouth.edu](mailto:koermer@plymouth.edu)  
 3 Credits  
**Tuesday** 9:30AM – 10:45AM      2/2, 2/9, 2/16, 2/23, 3/2, 3/9, 3/16, 3/30, 4/6, 4/13, 4/20, 4/27, 5/4, 5/11  
**Thursday** 9:30AM – 10:45AM      2/4, 2/11, 2/18, 2/25, 3/4, 3/11, 3/18, 4/1, 4/8, 4/15, 4/22, 4/29, 5/6, 5/13

This course starts with the concept of "mesoscale" and then goes into those aspects associated with fronts, jet streaks, and tropical storms. Much of the remaining part of the course is related to the mesoscale phenomena and meteorological factors associated with severe convective weather and includes forecasting these events through forecasting exercises.

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**MT5550.02 CRN: 30315 ST:MICROMETEOROLOGY**Plymouth  
3 Credits

STAFF

Meeting dates and instructor TBA.

Students will study the process involving the exchange of momentum, heat and moisture between the lowest portion of the atmosphere and the underlying surface of the Earth. Topics will include local energy budgets, soil heat transfer, the planetary boundary layer, turbulence, and neutral and diabatic surface layers.

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**MT5700.01 CRN: 30316 GRADUATE SEMINAR METEOROLOGY**Plymouth – Boyd Hall 306  
1 Credit

James Koermer

[koermer@plymouth.edu](mailto:koermer@plymouth.edu)**Wednesday** 4PM – 5PM 2/10, 2/24, 3/10, 3/17, 3/31, 4/14, 4/21, 4/28, 5/12  
**Friday** 3:30PM – 5PM 2/5, 3/5, 4/9, 5/7

Provides graduate students with a forum to publicly present and discuss their results from literature reviews, case studies, and/or research. This is a required course for all MS in Applied Meteorology students. This course can be repeated for credit twice for a total of three credits.

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**Special Education****SE - Special Education****SE5566.01 CRN: 20354 PBIS TARGETED APPROACHES FOR STUDENTS AT RISK**Plymouth – Rounds Hall 118  
3 Credits [Syllabus](#)

Marcel Lebrun

[mrlebrun@plymouth.edu](mailto:mrlebrun@plymouth.edu)

This course has an online component using Blackboard. Please note that the December class meets in Rounds 118 and the February class will meet in Rounds 203.

**Thursday** 5PM – 6:30PM 12/3, 2/18

This course addresses targeted methods designed to enhance the emotional well being and reduce the problem behavior of students who are at risk for school failure but who do not necessarily qualify for special education services. Using the positive behavioral interventions and support approach to systems change, students will learn how to create and nurture a problem solving team of professionals who are responsible for developing evidence based strategies for improving the behavior and academics of students for whom universal, school wide approaches have been insufficient. Topics include completing functional behavioral assessments of targeted students, creating behavior intervention plans based on functional behavioral assessment, designing and implementing targeted group interventions aimed at reducing problem behavior and increasing prosocial behavior and academic achievement of targeted students, and evaluating the targeted system data-based decision making for improving practice.

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**SE5568.01 CRN: 20355 PBIS FACILITATION SPECIALIST**Plymouth – Rounds Hall 118  
3 Credits [Syllabus](#)

Marcel Lebrun

[mrlebrun@plymouth.edu](mailto:mrlebrun@plymouth.edu)

This course has an online component using Blackboard.

**Tuesday** 5PM – 6:30PM 12/1, 2/16

This course provides students with the collaboration and consultation skills necessary to enhance the emotional well being and reduce the problem behaviors of all students in schools, including those identified as emotionally disturbed under the Individuals with Disabilities Act (IDEA). Within the context of a positive behavioral interventions and support model, student will learn how to be a school based PBIS coach in order to support the systems of change process in their schools. Topics include the process of systems change, collaboration with families and community agencies, team development and building, data based decision making and nurturing the PBIS initiative.

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**SE5600.01 CRN: 20357 LANGUAGE & LEARNING DISABILITY**Plymouth – Memorial Hall 010  
3 Credits [Syllabus](#)

Esther Kennedy

[eeekennedy@plymouth.edu](mailto:eeekennedy@plymouth.edu)

This course has an online component using Blackboard.

**Saturday** 8AM – 2PM 12/5, 12/12, 12/19, 1/9, 1/16, 1/23

This introductory course will cover the following areas: definition of LD, reading problems, language deficits both oral and written, mathematics underachievement, social skills deficits, attention and behavioral problems, academic achievement, and comorbidity with other disabilities, prevalence, environmental factors, standardized, criterion referenced, informal reading, curriculum-based measurement, and testing. Educational approaches such as explicit instruction, content enhancement, and placement alternatives will be explored. Current issues and future trends in the field of LD will be discussed.

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**SE5770.01 CRN: 20358 BEHAVIOR DISORDERS IN SCHOOL AGED CHILDREN****UPDATED**Plymouth – Rounds Hall 303  
3 Credits [Syllabus](#)

Marcel Lebrun

[mrlebrun@plymouth.edu](mailto:mrlebrun@plymouth.edu)

This course has an online component using Blackboard. Please note that the last class 2/15/10 will meet in Rounds 303.

**Monday** 4:30PM – 6:30PM 12/7, 1/25, 2/15

This course is designed to provide teachers with increased understanding of the needs of children who display maladaptive behaviors associated with conduct disorders in school settings. Students will investigate specific causes, diagnosis, assessment methods, interventions, etiology, co-morbidity, subtypes, pharmacotherapy, the role of the classroom teacher, and possible resources.

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**SE5800.01**      **CRN: 20369**      **PRACTICUM IN SPECIAL EDUCATION**  
**UPDATED**      Plymouth – Rounds Hall 014      Marcel Lebrun      [mlebrun@plymouth.edu](mailto:mlebrun@plymouth.edu)  
3 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Wednesday** 5PM – 6:29PM      12/2, 2/17

A supervised field experience in one of several cooperating institutions or agencies. The purpose is to gain meaningful work experience through applying knowledge learned in previous course work to the on-the-job situation. Commitment includes a negotiated number of hours per week. Supervision is done by the institution or agency concerned and by Plymouth faculty.

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**SE5821.01**      **CRN: 20376**      **INTERNSHIP SEMINAR IN SPECIAL EDUCATION**  
**UPDATED**      Plymouth – Rounds Hall 322      Marcel Lebrun      [mlebrun@plymouth.edu](mailto:mlebrun@plymouth.edu)  
1 – 9 Credits      [Syllabus](#)  
This course has an online component using Blackboard.  
**Thursday** 4:30PM – 6PM      12/3, 1/28, 2/18

A supervised field experience in one of several cooperating institutions. The purpose is to gain meaningful work experience through applying knowledge learned in course work to the on-the-job situation. Commitment includes 12 hours per week within the school environment over 3 days, and one three hour seminar per month. Supervision is done by the cooperating school and overseen by Plymouth State University faculty.