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## NOTE: The contents are subject to change without notice.

## **GRADING SYSTEM**

This is to inform you about the grading policy of Kyoto University International Education Program (KUINEP).

KUINEP students are required to register for a minimum of 12 credit hours per semester.

All KUINEP students will receive an academic transcript. This will contain the names of courses studied, class contact hours, number of credits awarded, and the grade evaluation. Grades for achievement are given according to the following code:

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A+ = 96 \sim 100\%

A = 85 \sim 95\%

B = 75 \sim 84\%

C = 65 \sim 74\%

D = 60 \sim 64\%

- = Fail (59.9% or less. No credits awarded.)
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The class ranking system is not taken at Kyoto University.

#### WORKLOAD STANDARD

The Kyoto University International Education Program (KUINEP), courses offered by Faculty, Liberal Arts and General Education courses and Japanese Language class consist of the autumn semester (October to March) and the spring semester (April to September). The duration of the each courses are as follows.

One credit is equivalent to 45 hours of workload per semester (15 weeks). Workload includes all learning activities, for example lectures, seminars, tutorials, laboratory, assignments and preparation.

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# **Spring Semester (April** ∼**September )**

# 1. Modern Physics

# **LECTURER** Masayasu AOTANI<sup>†</sup>

(Associate Professor, The Organization for the Promotion of International Relations)

## **COURSE OVERVIEW**

We will study the main concepts of quantum mechanics developed since the turn of the 20th century. The overall learning objective is to acquire the contextualized knowledge and analytic skills necessary to construct an understanding of phenomena in the domain of quantum mechanics. To this end, we will cover the following topics.

# **TOPICS**

- 1. Crises in Classical Physics
- 2. Planck and Blackbody Radiation
- 3. Einstein and Photoelectric Effect
- 4. Compton and Rutherford Scattering
- 5. Bohr Model
- 6. DeBroglie's Matter Waves
- 7. Birth of Quantum Mechanics
- 8. Schroedinger Equation
- 9. Square Well Potential
- 10. Scattering in One dimension
- 11. Simple Harmonic Oscillator
- 12. Electron Spin
- 13. Spectroscopy
- 14. Other Applications

# 2. Introduction to Metaphysics

# **LECTURER** Daisuke KAIDA

(Senior Lecturer, Graduate School of Letters)

## **OBJECTIVES**

This course is a topical introduction to contemporary analytic metaphysics, a branch of philosophy that attempts to describe the world in the most comprehensive manner at a very fundamental level. The topics we will likely to focus include: personal identity, time, free will, material constitution, and properties. We will also deal with several metaphysical problems in Buddhist philosophy. No previous knowledge is required.

# 3. Social Science Research Methods in Education II

**THEME** Investigating Japanese Education through Conducting Social Scientific Research

**LECTURER** Junko KAWAI

(Professor, The Organization for the Promotion of International Relations)

## **COURSE OVERVIEW**

Education is a complex subject partly because everyone, having been educated, has a personal view about what education should be and should not be. However, generalizing from one's own experience can be dangerous. This is one of the reasons why sociological perspectives become important in the field of education. Moving between the particular and the general, the personal and the social, the concrete and the abstract is one of the capacities we will try to develop in this class.

Students will learn the nature, purposes and methods of social science research in the field of education and each student will experience a small-scale research project. Students will be asked to go out and take a close look at what is happening and what has happened in Japanese education.

Class time is used for instructor's lecture, discussion, and students' presentation.

# 4. Entrepreneurship

#### **LECTURER** Tetsuo KITANI

(Professor, Office of Society-Academy Collaboration for Innovation)

## **OBJECTIVES**

We are now living in the entrepreneurial age. Knowledge about entrepreneurial process is critical, not only for students who are interested in entrepreneurial career, but also for students who seek to work in large organizations, because the need for all companies to maintain an entrepreneurial perspective is increasingly important.

This course will examine the venture creation and growth process at the various stages of generating ideas, recognizing and pursuing opportunities, raising capital, building infrastructure, and eventually harvesting the venture. This course addresses the issues faced by entrepreneurs who wish to turn opportunity into viable start-up companies that create value, and empowers students to develop their own approaches, guidelines, and skills for being entrepreneurs. During this course, students can practice the entrepreneurial process, and can become more adept at the decision making and skills of OPPORTUNITY RECOGNITION and RESOURCE ACQUISITION.

#### **COURSE ORGANIZATION**

In this course, we will rely upon lectures, case studies, and course projects to expose students to a wide array of ideas and material on entrepreneurship. Therefore, significant preparation and participation is expected from students. Our emphasis will be on engaging in lively and productive class discussions. Students will be expected to come to class fully prepared to discuss the reading and case material, by considering key issues or questions that are raised as a result of preparation for that week.

# 5. Global Business Strategy II

#### LECTURER Hiroaki NAGAYAMA

(Professor, The Organization for the Promotion of International Relations)

#### **OBJECTIVES**

This course is a continuation of the "Essentials of Business Strategy I" series. The course covers basic knowledge of management which is not covered in "Essentials of Business Strategy I". This lecture aims to understand important business themes for internationalizing companies, (such as business models, innovation, risk management, governance, "omotenashi" (hospitality), marketing in emerging countries, and human resource management in global organizations) by using basic analysis frameworks and case studies (e.g. HBS:Harvard Business School, IMD, and Keio Business School )to help us understand theoretical frameworks of global business strategy. We will then explore the linkages between concepts and practices.

During this course, students are expected to acquire an ability to create strategies and make decisions according to various situations which may be faced in real business.

# 6. Intellectual and Cultual History of Early Modern Japan

# LECTURER Niels VAN STEENPAAL

(Assistant Professor, Hakubi Center, Graduate School of Letters)

## **COURSE OUTLINE**

This course will introduce the intellectual and cultural history of the Tokugawa period (1600-1868), both as a body of knowledge, and as a historical method. That is, besides deepening our understanding of the philosophies, ideologies, and mentalities that helped shape this period, we will also develop the skills necessary to meaningfully examine these ideas as academic problems. Through class discussion based on research literature, primary sources (translations), and in-class presentations, we will reconstruct the way in which Tokugawa period contemporaries thought (or *did not* think) about a wide range of issues such as prostitution, discrimination, gender, education and the nation. Moreover, by comparing our modern popular conceptions of these periods with actual contemporary practice, we will gain a keen sense of how "traditions" are constructed over time.

# 7. Mental Illness and Health Care

**THEME** Learning the foundations of mental health in modern society

## **LECTURER** Yu SAKAGAMI

(Medical Doctor, Associate Professor, the Organization for the Promotion of International Relations)

#### **COURSE OVERVIEW**

In the modern era our environment changes with astonishing speed and is highly stressful. The importance of our mental health care is just so much common sense. However, it is difficult to understand and to promote mental health because of its obscure and elusive nature. In this course, students will learn the characteristics of some typical mental disorders within the issue of modern mental health. Furthermore, they will deliberate over how mental health and its associated disorders are related to cultural background and society. Through instructors' lectures, discussions, and in-class reports, students will learn the foundations of mental health care.

# 8. Anthropology of Interaction

# LECTURER Akira TAKADA

(Associate Professor, Graduate School of Asian and African Area Studies)

# **OBJECTIVES**

Both "culture" and "mind" are fundamental and important concepts in research about contemporary society and the self. However, it is not easy to precisely define and understand the essence of these terms. Based on a micro-analysis of everyday interactions in several African and Japanese societies, this course aims to deepen our understanding of "culture" and "mind". To this end, we will focus on the processes by which social reality is constructed by the act of meaning (Bruner 1990; Halliday 1993). Studies conducted from the perspective the Anthropology of Interaction suggest that the meaning of a particular action is not determined by the material substrate of the body (e.g., physical or neurological processes in the brain). Rather, it is proposed, negotiated, and established during the course of interactions. Hence, both "culture" and "mind" are folk concepts that refer to certain aspects of a constructed social reality. In this course, we will develop these arguments by analyzing selected domains of everyday life based on various ethnographic materials.

# 9. Universities and University Students in Today's Japan

#### LECTURER Shinichi MIZOKAMI

(Professor, Center for the Promotion of Excellence in Higher Education)

#### **COURSE OVERVIEW**

What is university or higher education like in Japan? Why do young Japanese people study at university? How is the relationship between school (or university) and work changing recently? Is university life still like a vacation between the hard studies of high school and the struggles of the working world for many students? This course answers these questions.

Although this course provides knowledge on Japanese universities and Japanese university students, I expect participants to actively engage with the course material by making comparisons with students and educational situations in their own countries. Also I expect international students to interact with Japanese participants in order to exchange knowledge and experience. I hope that the participants can enjoy the classes while learning, discussing and interacting with other participants.

No specialized knowledge is necessary because this is a general education course. Students of any major are welcome.

# 10. State and Politics in Southeast Asia

**LECTURER** Masaaki OKAMOTO

(Associate Professor, Center for Southeast Asian Studies)

**Pavin CHACHAVALPONGPUN** 

(Associate Professor, Center for Southeast Asian Studies)

Yoshihiro NAKANISHI

(Associate Professor, Center for Southeast Asian Studies)

# **OBJECTIVES**

Asia is on the rise politically and economically. Not only China and India but also Southeast Asia is becoming one of the rising regions in the world. ASEAN Economic Community that will start in 2015 will accelerate the economic integration among Southeast Asian countries and the further economic development will be achieved. That is why it is quintessential to understand Southeast Asia for all the students.

This introductory class on Southeast Asian state and politics aims to give the analytical framework to understand the characteristics of the states and politics in Southeast Asia. Southeast Asia experienced the colonization by the Western countries and then, the nationalism movement and communist movement rose against the colonization. After the Japanese occupation in 1942-1925, the nationalism movement bore fruit and all the Southeast Asian countries became independent and now Southeast Asia has eleven nation-states (Indonesia, the Philippines, Thailand, Myanmar, Malaysia, Singapore, Vietnam, Lao, Cambodia, Brunei Darussalam, Timor Leste). All the states adopt the market mechanism for the economic development, but Southeast Asian countries have high diversities in other fields. Southeast Asia is religiously and ethnically quite diverse. Southeast Asia is politically diverse, too. The Philippines and Indonesia are democratic countries. Thailand has a military regime. Myanmar, Vietnam and Cambodia are socialist countries.

Instead of understanding all the Southeast Asian countries briefly, this class aims to focus on the state and politics of four important countries, Indonesia, Thailand, Myanmar and the Philippines. The class is divided into four sessions after the introduction. The fist session is on the Indonesian politics, the second is on the Thai politics, the third is on the Myanmar politics and the last is on the Philippines politics. Each class will give the historical development of political regimes such as authoritarian, socialistic and democratic regimes to the key concepts such as colonialism, nationalism and separatism. The class will show some films that vividly to show how the politics and state were and are in Southeast Asia and the role of violence in the state building.

# 11. The Global Politics of Forests

#### LECTURER Wil DE JONG

(Professor, Center for Integrated Area Studies)

#### **OBJECTIVES**

Forests are an essential natural resource for the global human community. Their importance has again increased now that humanity is facing challenges of greenhouse gasses induced climate change. Deforestation contributes close to 20% to annual global CO2 emission. Forests are also an important resource in the livelihoods of millions of rural dwellers. This course will in a series of

lecturers touch upon key aspects of forests and the global human society. It will review the diversity and dynamics of global forests; the significance of forests for global, regional, national and local societies, from a historical perspective, cultural perspective, economic perspective and environmental perspective. The course will review global and national efforts of forest governance, and related topics that define and characterize the relation between human societies and forests.

# 12. Energy and Resources II

# **THEMES**

- 1. Energy Conversion Technology and Suppression of Global Warming
- 2. Materials Technology for Saving of Energy and Resources
- 3. Fuel Cell Technology and Related Issues

#### **LECTURERS**

- 1. Masahiro SHIOJI (Professor, Graduate School of Energy Science)
- 2. Mamoru MABUCHI (Professor, Graduate School of Energy Science)
- 3. **Hiroshi IWAI** (Associate Professor, Graduate School of Engineering)

## **COURSE OVERVIEW**

Modern society relies on abundant use of energy in order to realize a convenient and pleasant daily life. Fossil fuels are the main energy resources for the current energy conversion technology. Fuel reservoir, however, is very much limited in amount. Therefore, the effective uses of fossil fuels are necessary.

This course will introduce the advanced technologies in energy conversion and storage, especially for the supply of power and/or electricity.

# Fall Semester (September~March)

# 1. Applied Statistics

**THEME** To Learn What Probability and Statistics are and How to Use Them

**LECTURER** Masayasu AOTANI<sup>†</sup>

(Associate Professor, The Organization for the Promotion of International Relations)

# **COURSE OVERVIEW**

This class is a survey of basic concepts in statistics and probability. We will focus on applied probability and statistics rather than purely mathematical ones. As such, we will spend most of our time using probability and statistics to analyze real-life situations. The course is mainly intended for the students in humanities and social sciences.

## **TOPICS**

- 1. Basic Probability Theory
- 2. Elements of Statistics
- 3. Describing Sets of Data
- 4. The Normal Distribution
- 5. Estimation
- 6. Test of Hypothesis
- 7. Regression Analysis
- 8. Time Series
- 9. Analysis of Variance
- 10. Decision Analysis

# 2. Sustainable Development in Asia and The Global Context

# **LECTURER** Natsuka TOKUMARU

(Senior Lecturer, Graduate School of Economics)

**Sven RUDOLPH** 

(Assistant Professor, Graduate School of Economics)

**Vixathep SOUKSAVANH** 

(Assistant Professor, Graduate School of Economics)

#### **OBJECTIVES**

How to achieve sustainable development by efficiently using limited resources and by harmonizing the environment, economy, and society is a key issue in current theory and policy debates. This course aims to deepen the participants' knowledge and understandings of a concept of 'sustainable development' and

related problems from different perspectives of environmental economics, development economics and corporate governance, especially on the East Asian region set in a global context. Participants are expected to take part in interactive discussions and group presentations in this course. The topics

treated in this course include, but not limited to, energy problem, environmental pollution, development policy in developing countries, corporate governance in Japan, problems on Fukushima nuclear power plants, globalization and financial crisis.

# 3. Agriculture and Foods in Japan.

**LECTURER** Tatsuhiko SHIRAIWA (Professor, Graduate School of Agriculture)

Yasuo MATSUMURA (Professor, Graduate School of Agriculture)

**Kaoru KITAJIMA** (Professor, Graduate School of Agriculture)

# **COURSE OVERVIEW**

Rice is the symbol of Japan, its culture, food and environment. Besides rice, Japanese has utilized soybean and wheat as a starting material for as a seasoning Miso and Shoyu, and a Japanese noodle, Udon. The production of these important crops takes place under changing environment in terms not only of climate but also of social circumstances. In this class, three scientists will lecture on the production systems of rice, soybean and wheat as the traditional crops in Japan. Two modules will give particular attention the modern processing of these grains and technological development of rice production. The last module will provide an overview on the "Satoyama landscape" as a traditional agroforestrty ecosystem of Japan, the sustainable future of which is threatened by the demographic shifts and globalization in recent years.

# 4. Contemporary Philosophy in Japan

## **LECTURER** Daisuke KAIDA

(Senior Lecturer, Graduate School of Letters)

#### **OBJECTIVES**

You probably know of J-POP, Japanese popular music. Musicians in this genre are more or less influenced by western music, they sing in Japanese, and their works are popular among ordinary people. I say that there is a parallel genre (school) in contemporary philosophy in Japan. It started with Shozo OMORI (1921-97) and has been developed by some of his students. Philosophers in this school are more or less influenced by (analytic) western philosophy, they think and write in Japanese, and their works are accessible to and widely read by people outside academic circles. I call this genre "J-PHIL". In the lectures, I will introduce you to some of the notable achievements in J-PHIL, focusing on the works by Shozo OMORI, Shigeki NOYA (1954-), Hitoshi NAGAI (1951-), and others. No previous knowledge is required.

# 5. Japan in World History

#### LECTURER Niels VAN STEENPAAL

(Assistant Professor, Hakubi Center, Graduate School of Letters)

# **COURSE OUTLINE**

This course will offer an introduction to Japanese history from a global perspective. That is, we will approach the Japanese archipelago not as an isolated territory that seamlessly transformed into the nation state as we now know it, but as a geographical hub that has been shaped by centuries of "foreign" encounters through the centuries. We will look at how trade, war, diplomacy and ideas fostered international connections that have played crucial roles in deciding the trajectory of Japan's development.

# 6. Understanding Education, Human Lives and Cultures from Philosophical and Sociological Perspectives

LECTURERS Hachiro Iwai (Professor, Sociology of Education, Graduate School of Education)

Naoko Saito (Associate Professor, Philosophy of Education, Graduate School of Education)

## THEMES AND PURPOSE OF THE COURSE

This course is designed to improve your understanding of education, human lives and cultures from philosophical and sociological perspectives. There are two parts to the course. The first explores implications of American philosophy for education and the understanding of other cultures. The second examines the meaning of changing Japanese lives for contemporary education using sociological research results. Taken together, you are expected to deepen your thinking of how education contributes to developing a global citizen.

# 7. Global Business Strategy I

## **LECTURER** Hiroaki NAGAYAMA

(Professor, The Organization for the Promotion of International Relations)

# **OBJECTIVES**

The business strategy should be the guidelines which the company sets up for its long-term goals- to employ/utilize management resources and construct/establish a competitive domain in a changing environment. The aim of this course is for students to acquire basic knowledge and skills in corporate management, especially for global marketing and become capable of originating consistent strategic options.

The lectures of this course provide students with basic concepts and skills in developing business strategies, and global marketing strategies. Special emphasis will be placed on case studies of Japanese and international companies provided by Harvard Business School, IMD, and Keio Business School, looking into their management issues to help us understand the theoretical frameworks. We will use these cases as teaching materials. Every case study is an actual situation. We will then explore the linkages between concepts and practices.

The course consists of lecture-based instruction followed by guided discussion, readings as homework, student presentations, and a final examination. During this course, students are expected to acquire an ability to create strategies and make decisions according to various situations which they may face in a real business environment.

# 8. Self-Formation in Adolescence

## LECTURER Shinichi MIZOKAMI

(Professor, Center for the Promotion of Excellence in Higher Education)

## **COURSE OVERVIEW**

How do people know, understand, and form the self? What is the difference between self and identity? This course explores them focusing mainly on adolescence.

Self and identity are rather abstract concepts, so in this course, I will ask you about your experiences (ex. your own experience, what you have about others and the world, etc) and connect them to the concepts.

I have to teach some technical terms regarding self/identity in the course, but this is a general education course. The main purpose of the course is to know what happened/is happening/will happen to you regarding self/identity formation through understanding self/identity concepts. Students of any majors are welcome.

# 9. Introduction to Classical Japanese Literature

**THEME** Exploring Recurrent Themes, Ideas and Values Seen in Classical Japanese Literature

## LECTURER Shikiko YUKAWA

(Associate Professor, The Organization for the Promotion of International Relations)

#### **COURSE OVERVIEW**

Whether it be the eloquent verse of Ono no Komachi pining for her lover, the amorous tales of Hikaru Genji, who in turn learns of his own wife's seduction by another man, or the poignant story of the young warrior Atsumori in his last moments on the battlefield, classical Japanese prose and poetry pose important questions for us to consider.

What events, what things, what qualities provoked the artistic sensitivities of pre-modern Japanese writers and moved them to literary expression? What appealed to them and what did not? What were the objects of Japanese aesthetic appreciation? What ideas and values have gained acceptance in present-day Japan, and how have others been altered to suit modern tastes?

In the course of our study, we will attempt to answer these and other questions based on a careful reading of selected works. We will explore themes such as *mononoahare*, *wokashi*, *irogonomi*, *mujo*, *yugen*, *hana*, *fuga*, *wabi/sabi*, *kanzenchoaku*, etc., as seen in representative works from the Nara Period through Edo times. In many cases the themes are recurrent, drawing upon the literature of

preceding eras or profoundly influencing that of later periods, and they offer valuable insight into Japanese ideals and ways of thinking. We will also discuss examples, as seen in the text, of pre-modern Japanese conventions, cultural practices and social values — *tsumadohi*, *inton* (*tonsei*), *masurawo/tawoyame*, *hoganbiiki*, *giri-ninjo*, to name just a few.

Some of the genres we will cover in our discussion: waka poetry (Manyoshu, Kokinwakashu, Shinkokinwakashu, etc.); chronicles/histories (Kojiki, Nihon Shoki, etc.); diaries/memoirs (Tosa Nikki, etc.); narrative prose (Taketori Monogatari, Genji Monogatari, Heike Monogatari, etc.); essay-style writing (Makura no Soshi, Hojoki, Tsurezuregusa); drama (noh, joruri, kabuki); haikai poetry (Oku no Hosomichi, etc.). We will also address writing styles and literary devices used in these works and examine their various functions.

Class time will be devoted to both lectures and group discussion sessions.

# 10. The World of Open Education

# **LECTURER** Toru IIYOSHI

(Professor, The Center for the Promotion of Excellence in Higher Education, Kyoto University)

# **OBJECTIVES**

Over the last decade, the emerging Internet-enabled open education movement—including the recent rise of Massive Open Online Courses (MOOCs)—has been transforming the landscape of higher education both globally and locally. By making educational tools, resources, and knowledge freely and openly accessible to everybody around the world, the movement is beginning to radically change the cultures, values, systems, ecology, and economics of higher education. In short, open education is enabling all of us to learn anything, anytime, anywhere.

The goals of this course are for students to: 1) understand the core values, possibilities, and challenges in open education; 2) gain basic skills, such as learning strategies and methods, and knowledge for effective learning that takes advantage of open education; 3) become familiar with various open educational resources; and 4) define optimal ways to enhance and accelerate both personal and collaborative learning in undergraduate, graduate, and life-long education.

# 11. Energy and Resources I

# **LECTURERS**

- 1. **Hideyuki OKUMURA** (Associate Professor, Graduate School of Energy Science)
- 2. Shiro SAKA (Professor, Graduate School of Energy Science)
- 3. **Tetsuo TEZUKA** (Professor, Graduate School of Energy Science)

#### **THEMES**

- 1. Energy-Environmental Issues and Technology
- 2.Biomass Resources as the Post-Petroleum Science
- 3 Systems-Analysis Approach to Energy-environmental Issues

#### **SYLLABUS**

Energy and resource issues are closely related to our day-to-day modern lives and the environment. Various global environmental issues have become major challenges of the 21st century, and furthermore the Great East Japan Earthquake and Tsunami (2011) has revealed many related issues, including nuclear power, bringing energy and resource issues further to the forefront of issues to be tackled. In the 4.6 billion year history of Earth, the past 200-years of activity of humankind has had special significance in the sense that human activity can now cause major impacts on the earth. Therefore, there is a strong need for responsible action in the future. In this lecture series three instructors will overview and discuss various environmental problems such as resource depletion and energy issues, based on not only a technological approach but also in regards to human decision-making to select potential futures.

The course will first address the importance of acknowledging the existence of various environmental issues - both locally and globally - that are associated with our daily lives. The course will then discuss what measures can be taken that are effective or realistic in order to solve these issues. Effective utilization of sunlight as a natural source of energy is an important theme, not only for our lives now but for the planet and future generations as well, and in this lecture series, (i)Photocatalytic technology as environmental remediation and potential energy generation, and (ii)Biofuel conversion technology with optimal use of a variety of biomass resources, which is carbon-neutral, will be overviewed, as eco-technology for utilizing sunlight. Regarding human activities and important decisions on such energy and environmental issues, the systems-analysis approach, and the use of various models, will be discussed in terms of a decision-making framework for the entire system as well as the supply and demand of energy. The aim of the lectures throughout the series is thus to cultivate students' potential to consider the issues of energy, resources and environment through understanding them, and to develop perspectives on our future society.

# 12. Social Science Research Methods in Education I

**THEME** Japanese Education from Cross-cultural Perspectives

**LECTURER** Junko KAWAI

(Professor, The Organization for the Promotion of International Relations)

## **COURSE OVERVIEW**

This course provides an introduction to various aspects in Japanese education, while it focuses on sociological research and theory that are related to education from cross-cultural perspectives. Topics will include; patterns of socialization, processes of transmittion of culture and social control in education, analysis on "meritocracy" in various countries, and educational issues facing current Japanese education.

The primary purpose of the course is to provide the student with the factual knowledge, conceptual tools and approaches for understanding Japanese education and education of student's own. Class will be interactive in a mixed style of lectures and discussions, with occasional use of activities including videos and a field trip to one of the local schools. (The second semester starting April will focus more on developing knowledge and skills to conduct research project.)