CHEM/PHYS 291 2 Science & Intel Prop Spring 2014 George H. Fairchild, Ph.D. Office: Collier HOSCI 212 Office Phone: 610-861-1595 email: <u>gfairchild@moravian.edu</u> Eman H. Jarrah, Esq. email: jarrahe@moravian.edu

#### **Course Information:**

• Lecture on Thursdays, 2:45-4:15pm, in Collier HOSCI 207

#### **Course Materials:**

• Required text: "Intellectual Property Law for Engineers and Scientists",

Howard B. Rockman, John Wiley & Sons, New York (2004) ISBN: 978-0-471-44998-0

• Black Board Site: At <u>http://blackboard.moravian.edu/</u> you can enroll in the course page for CHEM 291 2. Lecture documents and pertinent links will be posted.

#### **Course Description:**

An introduction to various aspects of intellectual property law for science majors. Main topics include the fundamentals of patent law and the patenting process, understanding and interpreting the information contained in a patent, patent application drafting and prosecution, and the use of trade secrets, copyrights, and trademarks for protecting intellectual property. Additional topics include secrecy agreements, confidentiality agreements, inventors' rights, and an overview of careers in intellectual property law.

#### **Goals of the Course:**

Expectations of students completing this course include (but are not limited to) the following:

- An awareness and understanding of the various types of intellectual property protection.
- Knowledge of the process and requirements for obtaining patent protection for a discovery/invention.
- Ability to determine which form of intellectual property protection may be most appropriate for a given situation.
- Understanding the importance of intellectual property protection in science and technologydriven industries.
- An awareness of the steps needed to protect intellectual property, including proper laboratory notebook documentation of an invention.
- Knowledge of career opportunities in intellectual property law, including, but not limited to patent attorney, IP attorney, patent agent, USPTO patent examiner, and the like.

#### **Attendance Policy:**

Your presence is welcome and expected in all course meetings (class, problem sessions, and laboratories). As a reminder, the college policy on attendance can be found at <u>http://www.moravian.edu/studentLife/handbook/academic/academic.html</u>. If you anticipate an unavoidable absence (due to an extenuating circumstance that is documented by an academic dean or health professional), please notify the instructor as soon as possible. You are responsible for providing documentation and making arrangements in a timely manner or else a grade of zero will be assigned for missed work.

Students who wish to request accommodations in this class for a disability should contact Elaine Mara, Assistant Director of Learning Services for Academic and Disability Support at 1307 Main Street, or by calling 610-861-1510. Accommodations cannot be provided until authorization is received from the Academic Support Center.

# **Academic Honesty Policy:**

Please be familiar with the college policy on academic honesty that applies to this course (<u>http://www.moravian.edu/studentLife/handbook/academic/academic2.html</u>).

## **Cell Phone Policy:**

Please have the courtesy to turn off/not use/not answer your cell phone during course meeting times. For quizzes and exams, cell phones MUST be put away out of sight.

# Grading:

The total number of possible points in this course is *anticipated* to be as follows:

Quizzes (3 x 25pts. ea.):	75pts. (15%)
Mid-Term Exam:	100pts. (20%)
Final Exam:	200pts. (40%)
Weekly Assignments:	125pts. (25%)
Total for Course	500pts

It is within the instructor's purview to apply qualitative judgment in determining grades for an assignment or for the course.

## **Important Dates to Note:**

Tues. Jan. 21<sup>st</sup> – Last Day for Course Changes Fri. Feb. 28<sup>th</sup> – Mid-Term Fri. Apr. 4<sup>th</sup> – Last Day to Withdraw from a Course

# **Tentative Weekly Schedule:**

Week 1 (1/16): Overview of Intellectual Property Law and Use of I.P. in Business Reading: Text Chapts. 1 and 2 Assignment: Read a U.S. Patent and write 2-3 paragraphs about it (what the invention is, how it's made, what is its use)

Week 2 (1/23): Introduction to Patents and Information in a U.S. Patent Reading: Text Chapts. 3 and 4 Assignment: One page report on the USPTO – what is the USPTO, what is its function/purpose, brief history, select one feature of the USPTO website (<u>www.uspto.gov</u>) and discuss.

Week 3 (1/30): Patentable Subject Matter: Novelty, Utility, and Non-obviousness Reading: Text Chapts. 5, 6 and 7 Assignment: Read/review U.S. Patent and write a one page summary about what makes the invention novel and have utility.

Week 4 (2/6): The Patenting Process and Quiz 1 (Weeks 1-3) Reading: Text Chapt. 8 Assignment: Fill out invention disclosure form

Week 5 (2/13): Trademarks and the Importance of Branding in the Scientific World Reading: Text Chapt. 26

Assignment: Worksheet #1 – students create his/her trademark for the invention described on Worksheet; be prepared to discuss in class

Week 6 (2/20): Key Principles of Copyright; Copyright Infringement – You be the Judge Reading: Text Chapt. 22

Assignment: Worksheet #2 - Student will conduct a copyright search using Copyright website (<u>www.copyright.gov</u>) and prepare a one page report on his/her results/conclusions.

Week 7 (2/27): Mid-Term Exam (Weeks 1-6)

Week 8 (3/6): Spring Recess – No Classes

Week 9 (3/13): Patent Search Tools Reading: Text Chapt. 9 Assignment: Patent search using USPTO website

Week 10 (3/20): Patent Application process and Claims Drafting Reading: Text Chapts. 10 and 11 Assignment: Claims Drafting Exercise

Week 11 (3/27): Patent Prosecution, Issuance, and Maintenance; Quiz 2 (Weeks 8 and 9) Reading: Text Chapt. 12 plus supplemental material Assignment: Review patent application prosecution history using PAIR

Week 12 (4/3): Trade Secrets; Trade Secret Injunction Reading: Text Chapt. 25 Assignment: Review Supplemental Material, *US vs. Aleynikov;* Review Supplemental Material for In-Class "mock injunction" case

**Week 13 (4/10)**: "Coca-Cola: The Real Story Behind the Real Thing" – a documentary of a real world corporate empire and the intellectual property behind it Reading: Chapt. 20

Week 14 (4/17): (Quiz 3 – Weeks 12 and 13) Assignment: 1 page essay (and 3-5 minute presentation) of your post-Moravian graduation goals, including how an aspect of Intellectual Property will play a role in these goals.

Week 15 (4/24): International Patents and Careers in Intellectual Property Law Reading: Text Chapt. 17 Assignment: Search for foreign equivalent(s) of a U.S. patent (using EPO website)

Final Exam (comprehensive) – week of 4/27 – exact day/time t.b.d.