

**COLLEGE ACADEMIC AND STUDENT SUPPORT COUNCIL  
TUESDAY, FEBRUARY 13, 2007  
WOLFSON CAMPUS – ROOM 2106 - 1:30 P.M.**

**MINUTES**

**CHAIR:** Joseph McNair

**MEMBERS PRESENT:**

|                   |                        |
|-------------------|------------------------|
| Andrea Bermudez   | Loretta Blanchette     |
| Ken Boos          | Ana Maria Bradley-Hess |
| Ian Cobham        | Michael Cuellar        |
| Andrew Fancher    | Armando Ferrer         |
| Robert Foran      | Iliana Grana           |
| Sheri Goldstein   | Catherine Hanus-Zank   |
| Malou Harrison    | Laurie Hime            |
| Mayte Insua-Auais | Miriam Lorenzo         |
| Pamela Menke      | Victor Okafor          |
| Lourdes Oroza     | Lourdes Perez          |
| Carol Petrozella  | Madeline Pumariega     |
| Herbert Robinson  | Lenore Rodicio         |
| Steve Roitstein   | Rebecca Sanchez        |
| Richard Schinoff  | Dwight Smith           |
| Carol Tulikangas  | Maria Vargas-O'Neel    |
| Maria Valenzuela  |                        |

**MEMBERS ABSENT:**

|                     |                                |
|---------------------|--------------------------------|
| Santiago Aranegui   |                                |
| Loorna DeDuluc      | Sent Notification              |
| Euphemia Jackson    | Sent Notification              |
| Sylvia Klein        | Rebecca Sanchez (Substitute)   |
| Sean Madison        | (Sent Notification)            |
| Alfredo Perez-Triff |                                |
| Yuly Pomares        | (Substitute Deborah Powell)    |
| Deborah Powell      | (Substitute/Sent Notification) |
| Deborah Smith       |                                |
| Fred Wolven         | Sent Notification              |

**PRESENTERS:**

Heather Belmont  
Norma Martin Goonen  
Ken Lee  
Tom Meyer  
Nidia Romer

CASSC Meeting  
February 13, 2007

**GUEST:** Valentine Negrouk  
Gina Cortes-Suarez  
David Paul  
Silvio Rodriguez  
Mario Sanchez

**RESOURCE:** Julian Chiu  
Haniel Pulido  
Mollie DeHart

**RECORDER:** Carol McAlister

1. **Call to Order**  
Joseph McNair called the meeting to order.
2. **Introductions**  
Joseph McNair introduced Richard Schinoff, the Interim Academic Dean at Medical Center Campus, and returning CASSC member Mayte Insua-Auais who was on leave during the past semester.
3. **Approval of the December 5, 2006 CASSC Minutes**  
The minutes of the December 5, 2006 CASSC meeting were approved as submitted.
4. **Dr. Goonen's Updates**  
*General Education Assessment*  
The General Education assessment tasks were drawn up by faculty for the General Education Outcomes. The assessment tasks were administered to students at the end of the Fall semester, and graded by the faculty who created the Assessments. Institutional Effectiveness is compiling the results which will then be reviewed by the General Education Committee. On Conference Day each discipline, school, and the student services staff will review the assessment results and identify actions to be taken. A follow-up report is due to SACS in April.  
  
*Endowed Teaching Chair Application*  
The Endowed Teaching Chair applications are available. Information has been sent to faculty. In the event that you are aware of someone who did not receive the communication, please pass the information on that the applications are available.  
  
*Community College Survey of Student Engagement (CCSSE)*  
The CCSSE student and faculty survey will be administered on March 10, 2007, continuing through April 7, 2007. It will be administered to approximately 122 MDC classes. In 2004, MDC participated in the survey and received above-average ratings.

College Learning for the New Global Century

The Executive Summary of the College Learning for the New Global Century, a report from the National Leadership Council for Liberal Education and America's Promise (LEAP) was distributed. In the larger version of the publication, it mentions MDC's focus groups and states that MDC students, including A.S. degree students, were of the opinion that liberal education and the outcomes were vital for employability and their future. We are pleased that our students consider this to be of crucial importance.

Provost's Symposium-National and Global Perspectives: Growing Demands on Higher Education

Dr. Roberts Jones presented at the Provost's Symposium on February 7, 2007. Dr. Jones is widely credited with helping place workforce development at the forefront of the nation's public policy agenda. He is also involved in the National Leadership Council for Liberal Education and America's Promise (LEAP) initiative.

SACS Hialeah Campus Visit-Application for Substitutive Change

In early February, 2007, SACS visited Hialeah Campus. According to the state, Hialeah is a campus as the state counts FTE's, but SACS counts programs. After a thorough three day visit at Hialeah Campus, SACS had positive feedback. The SACS report to MDC on the Application for Substitutive Change from the Hialeah Center to Hialeah Campus will be forthcoming.

5. **Research and Testing Committee Structure**

Sheri Goldstein proposed a change to the structure of the Research and Testing Committee. The proposal was to change the structure from a Testing area representative, as Testing is well represented on the committee, to an Academic Advisement area representative. The current structure does not include representation from Academic Advisement.

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6. **Curriculum-Chinese**

Pamela Menke introduced Tom Meyer who presented the Chinese curriculum.

**CHANGE EXISTING COURSE**

| <u>Course No.</u> | <u>Course Title</u>           | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|-------------------------------|----------------|---------------|------------------|
| CHI 1120          | Elementary Chinese 1          | 4              | 1,2,3,5,6,7   | 2006-3           |
|                   | To                            |                |               |                  |
|                   | Elementary Mandarin Chinese 1 |                |               |                  |

**Special Fee Increase:** From \$10 to \$15

**Revised Course Description:** An integrated approach to acquire proficiency in the basic skills of Mandarin Chinese - listening/understanding, speaking, reading, writing, and cross-cultural awareness. Emphasis on practical vocabulary and accurate pronunciation. Practice in class and laboratory in understanding and using the spoken language; reading and writing with progressive grammatical explanations.  
Laboratory activities: Required

**ADD NEW COURSE**

| <u>Course No.</u> | <u>Course Title</u>           | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|-------------------------------|----------------|---------------|------------------|
| CHI 1121          | Elementary Mandarin Chinese 2 | 4              | 1,2,3,5,6,7   | 2006-3           |

**Special Fee:** \$15

**Course Description:** A continuation of Elementary Mandarin Chinese 1. A proficiency-oriented course emphasizing the mastery of the basic skills of the language.  
Laboratory activities: Required  
Prerequisite: CHI1120

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7. **Curriculum-Change Existing Course**

Richard Schinoff introduced Nidia Romer who presented the changes to HUN 1201, Essentials of Nutrition.

| <u>Course No.</u> | <u>Course Title</u>  | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| HUN 1201          | Essentials of Nutrition<br>To<br>Essentials of Human Nutrition | 3              | 1,2,3,5,6,7   | 2006-3           |

**Revised Course Description:** The Essentials of Human Nutrition is a general education course designed to acquaint students with the specific role of carbohydrates, fats, proteins, vitamins, minerals, and water in daily life. This includes a study of the human body systems that manage the breakdown, assimilation, and excretion of nutrients and their metabolic wastes. The course explores the relationships between food and optimal health including physical fitness. The relationships between nutritional imbalances and diseases are studied.  
Pre/Co-requisite: None

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8. **Curriculum-Physical Therapist Assistant Program Changes (2006-3)**

Richard Schinoff introduced Ken Lee who presented the changes to the Physical Therapist Assistant Program.

**Course Title Changes and Pre/Corequisite (Changes Noted in Red/Italics)**

**Course Required Pre and Corequisite Changes (2006-3):**

| Course Number | Course Title & Changes                        | Credits | Course Description   | Current Pre and Co-requisite courses   | Required Pre and Co-requisite courses  |
|---------------|---|---------|--|--|--|
| PHT 1102      | Anatomy for the Physical Therapist Assistants | 2       | Regional description of the musculoskeletal landmarks utilized in implementing and documenting assessment and treatment procedures in physical therapy. (2 hr. lecture)  | None   | <i>Corequisites: BSC 2085, 2085L, PHY 1004, 1004L, PHT 1201, 1201L, 1211, 1211L</i>                    |
| PHT1201       | Introduction to Physical Therapy              | 2       | Survey and history of the physical therapy profession. Role and responsibilities of the physical therapist assistant as they react with patients and other health care workers are discussed. Overview of common medical and surgical conditions treated in physical therapy is presented. (2 hr. lecture) | Corequisite: PHT 1201L   | <i>Corequisites: BSC 2085, 2085L, PHY 1004, 1004L, PHT 1102, 1201L, 1211, 1211L</i>                    |
| PHT1201L      | Introduction to Physical Therapy Laboratory   | 1       | Basic patient care and treatment procedures which are typically required in a physical therapy service area. Treatment procedures include the proper administration of steam packs, cold packs, paraffin, whirlpool and gait training. Laboratory fee. (2 hr. lab)   | Corequisite: PHT 1201.   | <i>Corequisites: BSC 2085, 2085L, PHY 1004, 1004L, PHT 1211, 1211L, 1201, 1102</i>                     |
| PHT1211       | Disabilities and Therapeutic Procedures 1     | 2       | Cause and effect factors associated with selected orthopedic and neuromuscular disabilities. (2 hr. lecture)   | Prerequisites: BSC 2085, 2085L, PHT 1211L.                                     | <i>Corequisites: BSC 2085, 2085L, PHY 1004, 1004L, PHT1211L, 1201, 1201L, 1102</i>                     |
| PHT1211L      | Disabilities and Therapeutic Procedures 1 Lab | 1       | Laboratory practice of basic technical skills relating to electro-hydrotherapy, therapeutic exercise and patient care procedures. Laboratory fee. (2 hr. lab)  | Corequisite: PHT 1211.   | <i>Corequisites: BSC 2085, 2085L, PHY 1004, 1004L, PHT 1211, 1201, 1201L, 1102</i>                     |
| PHT2120       | Applied Kinesiology                           | 2       | Anatomical structures and movements as related to physical therapy procedures. Recognition and understanding of biomechanics of all human motion as related to the function of the musculoskeletal system during therapeutic exercise and gait training is discussed. (2 hr. lecture)                      | Prerequisites: PHT 1201, 1211, 1211L;<br>Corequisites: PHT 2120L, 2224, 2224L. | <i>Prerequisites: PHT 1201, 1211, 1211L;<br/>Corequisites: PHT 2120L, 2224, 2224L, BSC 2086, 2086L</i> |

| <b>Course Number</b> | <b>Course Title &amp; Changes</b>             | <b>Credits</b> | <b>Course Description</b>   | <b>Current Pre and Co-requisite courses</b>   | <b>Required Pre and Co-requisite courses</b>   |
|----------------------|---|----------------|---|---|--|
| PHT2120L             | Applied Kinesiology Laboratory                | 1              | Procedures in measuring and analyzing muscle strength and function as related to the biomechanics of human motion. Laboratory fee. (2 hr. lab)  | Corequisite: PHT 2120   | <b>Prerequisites: PHT 1201, 1211, 1211L;</b><br><b>Corequisites: PHT 2120, 2224, 2224L.</b><br><b>BSC 2086, 2086L</b>  |
| PHT2162              | Survey of Neurological Deficits               | 3              | Survey and description of clinical manifestations of neurological dysfunction frequently treated in physical therapy. (3 hr. lecture)   | Prerequisites: PHT 1201 1201L, 1102, 1211, 1211L, 2120, 2120L, 2224, 2224L, 2801;<br>Corequisites: PHT 2701, 2701L, 2810, 2931. | <b>Prerequisites: PHT 2120, 2120L, 2224, 2224L</b><br><b>Corequisites: PHT 2701, 2701L, 2801.</b>                      |
| PHT2224              | Disabilities and Therapeutic Procedures 2     | 4              | Cause and effect factors associated with the more complex medical and surgical problems resulting in disability. (4 hr. lecture)  | Prerequisites: PHT 1201, 1211, 1211L;<br>corequisites: PHT 2120, 2220L.   | <b>Prerequisites: PHT 1201, 1211, 1211L;</b><br><b>Corequisites: PHT 2120, 2120L, 2224L,</b><br><b>BSC 2086, 2086L</b> |
| PHT2224L             | Disabilities and Therapeutic Procedures 2 Lab | 2              | Laboratory practice of more complex technical skills and competencies related to preparing equipment and treatment of patients with a variety of medical, surgical and neuromuscular disabilities.. Laboratory fee. (4 hr. lab)                   | Corequisite: PHT 2224   | <b>Prerequisites: PHT 1201, 1211, 1211L;</b><br><b>Corequisites: PHT 2120, 2120L, 2224,</b><br><b>BSC 2086, 2086L</b>  |
| PHT2701              | Rehabilitation Procedures                     | 3              | Clinical manifestations and treatment techniques related to physical therapy, intervention for children and adults with injuries and disabilities (spinal cord and brain injuries or disease, limb amputations, burns). (3 hr. lecture)           | Prerequisites: PHT 2120, 2120L, 2224, 2224L.<br>Corequisite: PHT 2701L.   | <b>Prerequisites: PHT 2120, 2120L, 2224, 2224L</b><br><b>Corequisites: PHT 2162, 2701L, 2801</b>                       |
| PHT2701L             | Rehabilitation Procedures Laboratory          | 2              | Laboratory practice in the technical skills and competencies required in the total rehabilitative care and treatment of the child or adult who has had a severe injury or disease resulting in multiple disabilities. Laboratory fee. (4 hr. lab) | Corequisite: PHT 2701.  | <b>Prerequisites: PHT 2120, 2120L, 2224, 2224L</b><br><b>Corequisites: PHT 2162, 2701, 2801</b>                        |
| PHT2801              | Clinical Practice & Conference 1              | 4              | Beginning clinical experiences in supervised patient care activities in a variety of clinical facilities including general hospitals and physical therapy clinics. (12 hr. clinic)  | Corequisites: PHT 2120, 2224, 2224L.  | <b>Prerequisites: PHT 2120, 2120L, 2224, 2224L</b><br><b>Corequisites: PHT 2162, 2701, 2701L</b>                       |
| PHT2810              | Clinical Practice & Conference 2              | 5              | Intermediate clinical experiences in selected patient care activities under the supervision of a licensed physical therapist. 2931. (15 hr. clinic)   | Prerequisite: PHT 2801;<br>Corequisites: PHT 2701, 2701L, 2931  | <b>Prerequisites: PHT 2162, 2701, 2701L, 2801</b><br><b>Corequisites: PHT 2931</b>                                     |
| PHT2820              | Clinical Practice & Conference 3              | 7              | Advanced clinical experiences in patient care activities under the direct supervision of a licensed   | Prerequisite: PHT 2810.   | <b>Prerequisite: PHT 2810, 2931</b>  |

| Course Number | Course Title & Changes                           | Credits | Course Description   | Current Pre and Co-requisite courses                | Required Pre and Co-requisite courses  |
|---------------|--|---------|--|---|--|
|               |  |         | physical therapist. (21 hr. clinic)  |   |  |
| PHT2931       | <b>Seminar for Physical therapist Assistants</b> | 3       | Recognition of the expected current competency levels, and ethical and legal responsibilities of the physical therapist assistant in the health care system. (3 hr. lecture) | Prerequisite: Permission of department chairperson. | <b>Prerequisites: PHT 2162, 2701, 2701L, 2801</b><br><b>Corequisites: PHT 2810</b> |

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9. **Curriculum – New Program – Biotechnology**

Lourdes Oroza, on behalf of her colleagues Richard Schinoff and Pam Menke, introduced Heather Belmont who presented the new Biotechnology Program. This collaborative program was developed with the North Campus, Medical Campus, Wolfson Campus, and faculty throughout the College. The program was initiated from three separate grants the College received in the amount of 5 million dollars to develop new programs and purchase equipment to offer courses in Biotechnology.

**NEW ASSOCIATE OF ARTS DEGREE INTERDISCIPLINARY SCIENCES – TOTAL CREDITS REQUIRED FOR THE DEGREE – 60 (CIP = 30.0101)**

**(2007-1)**

Biotechnology is the practice of using living organisms to make products or improve processes. It combines elements of biology, chemistry, engineering, and computing. This program provides the first two years of a four-year curriculum for students planning to major in biotechnology, biology, chemistry or bioinformatics. Majors may also enter professional schools in related disciplines.

**NEW ASSOCIATE OF SCIENCE DEGREE – BIOTECHNOLOGY – TOTAL CREDITS REQUIRED FOR THE DEGREE - 61 (CIP = 1626061600)**

**(2007-1)**

The biotechnology program will expose students to a breadth of topics and emphasizes hands-on learning in a variety of techniques and procedures necessary for employment in the bioscience industry. The Program includes modules designed to enhance critical thinking and technical communication skills. It focuses on developing broad transferable skills and stresses understanding and demonstration of laboratory/industry protocols and regulations, bio-safety and safe operating procedures, ethical and environmental issues, product generation/formulation, quality control, validation, instrumentation, and computing.

**ADVANCED TECHNICAL CERTIFICATE IN BIOTECHNOLOGY – TOTAL CREDITS REQUIRED FOR THE DEGREE – 33 (2007-01)**

A fast-track certification program in Biotechnology is available for students with bachelor's degrees, or having at least an associate degree and a strong background in college-level math and science courses. This background, combined with selected courses in the biotechnology program, will provide students with the necessary skills to seek employment in Biotechnology related industries.

**COLLEGE CREDIT CERTIFICATE – BIOTECHNOLOGY – TOTAL CREDITS REQUIRED FOR THE DEGREE - 19 (2007-1)**

The College Credit Certificate in Biotechnology seeks to prepare students for immediate entry-level employment in the biotechnology-, pharmaceutical-, or medical device manufacturing-industry. The program prepares individuals in the principles, procedures, and practices used in the bioscience industries. The college credits granted in this program will apply toward an Associate in Science degree in Biotechnology.

**NEW COURSES**

| <u>Course No.</u> | <u>Course Title</u>                    | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| BSC 2426          | Biotechnology Methods & Applications 1 | 3              | 1, 3          | 2007-1           |

**Course Description:** This course addresses the basic principles, concepts and techniques of biotechnology necessary for an understanding of the field, and effective work in a pharmaceutical-biotechnology-and/or research laboratory setting(s). Practical applications of biotechnology are explored.

**Prerequisite:** Previous knowledge of chemistry and biology strongly recommended.

**Corequisite:** BSC 2426L, Biotechnology methods and applications Lab 1

| <u>Course No.</u> | <u>Course Title</u>                        | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| BSC 2426L         | Biotechnology Methods & Applications 1 Lab | 2              | 1, 3          | 2007-1           |

**Course Description:** This laboratory course is designed to complement BSC 2426 Biotechnology Methods and Applications 1. This is a hands-on course that emphasizes the basic laboratory principles, techniques, and instrumentation, necessary for effective work in pharmaceutical, biotechnology, and/or research laboratory settings (s).

**Prerequisite:** Previous knowledge of chemistry and biology strongly recommended.

**Corequisite:** BSC 2426 Biotechnology Methods and Applications 1.

**Special Fee:** \$50.

| <u>Course No.</u> | <u>Course Title</u>                    | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| BSC 2427          | Biotechnology Methods & Applications 2 | 3              | 1, 3          | 2007-1           |

**Course Description:** This course addresses advanced principles, concepts and techniques of biotechnology necessary for an understanding of the field, and effective work in a pharmaceutical-, biotechnology- and/or research-laboratory setting(s). The following areas of contemporary biotechnology are covered: forensics, bioremediation, and medical-, animal-, plant-, and marine-biotechnology.

**Prerequisites:** BSC 2426 and BSC 2426L

**Corequisite:** BSC 2427L

| <u>Course No.</u> | <u>Course Title</u>                        | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| BSC 2427L         | Biotechnology Methods & Applications Lab 2 | 2              | 1, 3          | 2007-1           |

**Course Description:** This laboratory course is designed to complement BSC 2427 Biotechnology Methods and Applications 2. This is a hands-on course that emphasizes advanced laboratory principles, techniques, and instrumentation necessary for effective work in a pharmaceutical, biotechnology, and/or research-laboratory setting (s).

**Prerequisite:** BSC 2426 and BC 2426L

**Corequisite:** BSC 2427 (Biotechnology Methods and Applications 2)

**Special Fee:** \$50.

| <u>Course No.</u> | <u>Course Title</u>  | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| BSC 2423C         | Methods & Applications of Cell Culture & Protein Biotechnology | 4              | 1, 3          | 2007-1           |

**Course Description:** This course addresses the basic methods and principles of cell culture and protein biochemistry necessary for an understanding of the field and effective work in a pharmaceutical, biotechnology and/or research laboratory setting (s). Practical applications of cell culture and protein biotechnology are explored with hands-on training in plant and mammalian cell culture and protein purification.

**Prerequisite(s):** BSC 2427 and BSC 2427L

**Special Fee:** \$50.

| <u>Course No.</u> | <u>Course Title</u> | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|---------------------|----------------|---------------|------------------|
| PCB 2061          | Genetics            | 3              | 1, 3          | 2007-1           |

**Course Description:** This course provides a understanding of the mechanisms of transmission of heritable information including classical principles of Mendelian genetic analysis, principles of modern genetic analysis, gene mapping, change and regulation of gene expression. Quantitative genetic analysis, genomics, genetic basis of cell and cancer development will also be explored.

**Prerequisite(s):** BSC 2010 and BSC 2010L

CASSC Meeting  
February 13, 2007

| <u>Course No.</u> | <u>Course Title</u>   | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|-----------------------|----------------|---------------|------------------|
| BSC 2943L         | Bioscience Internship | 3              | 1, 3          | 2007-1           |

**Course Description:** The internship will provide students with hands-on work experience in Bioscience or related industries. The experience readies the individual for their first position in field along with continued attention to and application of skills required to gain employment.

**Prerequisite(s):** Completion of at least 8 credit hrs. from Biotechnology, Bioinformatics or Chemical Technology track-specific course sequence.

**Special Fee:** \$21.

| <u>Course No.</u> | <u>Course Title</u>             | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|---------------------------------|----------------|---------------|------------------|
| CHM 2110C         | Survey of Quantitative Analysis | 4              | 1, 3          | 2007-1           |

**Course Description:** This course is a one-semester combination lecture-laboratory course covering the theories, calculations, and methodologies used in analytical chemistry. Topics include mathematical treatment of data; acid-base equilibria; and gravimetric, volumetric, and potentiometric methods of analysis.

**Prerequisite(s):** CHM 1046 and CHM 1046L with a grade of "C" or better.

**Special Fee:** \$44.

| <u>Course No.</u> | <u>Course Title</u>         | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|-----------------------------|----------------|---------------|------------------|
| CHM 2200          | Survey of Organic Chemistry | 3              | 1,2,3,6       | 2007-1           |

**Course Description:** This one-semester course briefly examines the structure, synthesis, nomenclature and reactivity of selected mono- and poly-functional organic compounds. Theories that relate the structure of organic molecules to their chemical reactivity will be presented as a unifying principle.

**Prerequisite(s):** CHM 1046 with a grade of "C" or higher

**Corequisite:** CHM 2200L

| <u>Course No.</u> | <u>Course Title</u>                    | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|--|----------------|---------------|------------------|
| CHM 2200L         | Survey of Organic Chemistry Laboratory | 1              | 1,2,3,6       | 2007-1           |

**Course Description:** Experiments and exercises will be conducted to introduce students to the basic laboratory techniques that are used in organic chemistry and that re-enforce and illustrate several important topics in organic chemistry.

**Prerequisite:** CHM 1046L with a grade of "C" or higher

**Corequisite(s):** CHM 2200

**Special Fee:** \$46.

| <u>Course No.</u> | <u>Course Title</u>                 | <u>Credits</u> | <u>Campus</u> | <u>Eff. Term</u> |
|-------------------|-------------------------------------|----------------|---------------|------------------|
| CHS 2311C         | Analytical Chemical Instrumentation | 4              | 1, 3          | 2007-1           |

**Course Description:** An introduction to a variety of chemical instrumentation commonly employed in the chemical and pharmaceutical industries. The course will combine lecture and discussion with laboratory experiences to present the principles of instrumental analysis as well to provide extensive hands-on experience with instrumentation commonly used in the chemical and pharmaceutical industries.

**Pre/Corequisites(s):** CHM 2200, CHM 2200L, CHM 2120C, or 2210, 2210L, 2211, 2211L

**Special Fee:** \$44.

| <u>Course No.</u> | <u>Course Title</u>  | <u>Credits</u> | <u>Campus</u> | <u>Term</u> |
|-------------------|----------------------|----------------|---------------|-------------|
| CGS 1021          | Scientific Computing | 4              | 1, 3          | 2007-1      |

**Course Description:** This course explores the specialized features of common computer desktop applications as applied to biotechnology data. Through hands-on practical assignments, students will study and practice the computerized techniques by which to organize, manipulate, report, present, depict and analyze biomolecular data and information.

**Corequisite:** STA 2023

**Special Fee:** \$40.

| <u>Course No.</u> | <u>Course Title</u>            | <u>Credits</u> | <u>Campus</u> | <u>Term</u> |
|-------------------|--------------------------------|----------------|---------------|-------------|
| CGS XXXX          | Introduction to Bioinformatics | 4              | 1, 3          | 2007-1      |

**Course Description:** This course introduces the basic concepts and techniques of Bioinformatics. Through research papers, hands-on projects and use of common computational programs, students will apply aspects of Information Technology and Computer Science in order to analyze biological/biomolecular/bioinformatics data.

**Prerequisite(s):** BSC 2426 or PCB 2061, and either CGS 1021 or CGS 1060

**Special Fee:** \$40.

| <u>Course No.</u> | <u>Course Title</u> | <u>Credits</u> | <u>Campus</u> | <u>Term</u> |
|-------------------|---------------------|----------------|---------------|-------------|
| COP 2004          | Perl Programming 1  | 4              | 1, 3          | 2007-1      |

**Course Description:** This course provides a practical introduction to PERL programming for the biology/bioinformatics student. Through lectures, real-world examples and extensive hands-on assignments, the student will acquire an understanding of the PERL syntax and use it to create and execute PERL modules that solve common bioinformatics programming demands.

**Prerequisite(s):** CSG XXXX (Introduction to Bioinformatics), CIS 2321

**Special Fee:** \$40.

CASSC Meeting  
February 13, 2007

| <u>Course No.</u> | <u>Course Title</u>               | <u>Credits</u> | <u>Campus</u> | <u>Eff.</u><br><u>Term</u> |
|-------------------|-----------------------------------|----------------|---------------|----------------------------|
| ETI 1181          | Introduction to Quality Assurance | 3              | 1, 3          | 2007-1                     |

**Course Description:** This course describes the role and aspects of Quality systems and Regulatory affairs in research laboratories, regulated companies, and firms that comply with voluntary standards. Topics include stages in development and submission of drugs and medical devices, patents legislation, and quality systems such as auditing, Standard Procedures, Good Manufacturing and Laboratory practices.

| <u>Course No.</u> | <u>Course Title</u>                      | <u>Credits</u> | <u>Campus</u> | <u>Eff.</u><br><u>Term</u> |
|-------------------|--|----------------|---------------|----------------------------|
| ETI XXXX          | Introduction to Bioscience Manufacturing | 3              | 1, 3          | 2007-1                     |

**Course Description:** This course introduces students to the field of bioscience manufacturing. Topics will include basic principles of the industry, large-scale process development and the future of the bioscience industry. Current Good Manufacturing Practices (cGMPs), and the nature and delivery system of products will also be discussed.

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10. **Information Item-24 Hour Elective Block**

Dwight Smith introduced Mollie DeHart who presented information regarding the 24 hour elective block. The 24 hour elective block information has been routed through the disciplines and the Academic Deans. The updated listing is now in compliance with the State Course Numbering System, the MDC SACS faculty credential guidelines, and aligns with the A.A. articulated Baccalaureate Programs in Florida four-year institutions.

## INFORMATION ITEM

As a defined grid by program/specialization (refer to the program grid). Courses that are not used for General Education Requirements may be used for electives here (refer to list below). Students are encouraged to check with their advisor or go to [www.FACTS.org](http://www.FACTS.org) for transfer information.

ACG 2001, 2001L, 2011, 2011L, 2021, 2021L, 2071, 2071L, AFH, AMH, AML, ANT, ARC, ARH, ART, ASH, AST, BOT, BSC, BUL 2130, 2241, 2242, CCJ (except 1949, 2925, 2940, 2949, 2995), CGS 1060, 2405, 2423, CHI, CHM, CJD (except 1940), CJT (except 2990), CLP, COP 1170, 1220 (or equivalent languages), CPO, CRW, CTE 1401, DAA, DAN, DEP, ECO, EDF (except 1949, 2949), EDG (except 2943), EEC (except 1000, 1200, 1311, 2202), EEL, EEX, EGS 1001C, 1111C, 2033, 2311, EHD (except 1941), ENC (except 0002, 0020, 0021), ENG, ENL, EUH, FIL 1400, 2102, FIN 2000, FOT 2122, 2123, FRE, FRW, GEA, GEO, GER, GLY, GRA 1111C, 2117C, 2190C, 2191C, HAI, HBR, HFT 1000, HLP 1080, 1081, 1083, HSC 1152, 2100, 2400, 2531, HUM, HUN, HUS, IND 1020, 1100, 1130, 1200, 2210, 2220, 2430, INP, INR, ISC, ISS 1120, 1161, 2270, ITA, JOU (all courses transferable except for majors), JPN, JST, LAH, LIN, LIS, LIT, MAC, MAD, MAP, MAS, MCB, MET, MGF, MMC, MTG, MUC, MUE, MUH, MUL, MUN, MUO, MUS, MUT, MVB, MVJ, MVK, MVO, MVP, MVS, MVV, MVW, OCB, OCE, PAD, PCB, PCO, PEP, PEQ, PET (except 2303, 2303L, 2940), PGY 2110C, 2111C, 2401C, 2410C, 2470C, 2475, PHI, PHM, PHY, PLA 2003, 2104, 2114, 2203, 2223, 2273, 2303, 2600, 2800, POR, POS, POT, PPE, PSB, PSC, PSY, PUR, QMB, REL, RUS, SLS 1401, SOP, SOW, SPA, SPC, SPN, SPW, STA, SYG, THE, TPA, TPP, VIC, WOH, ZOO

*Proposed Effective Date – Fall 2007*

*Approved by Academic Deans – 12/07/06*

## A.A. 24 HR. ELECTIVE BLOCK

### EFFECTIVE IMPLEMENTATION 2007-1

| <b><u>COLUMN A (DID COUNT)</u></b><br><b>CURRENT COURSES USED IN THE</b><br><b>AA 24-HOUR ELECTIVES BLOCK</b><br><b>(AS OF 06-16-2006)</b> | <b><u>COLUMN B (WILL COUNT)</u></b><br><br><b>COURSES WHICH MEET AA</b><br><b>DEGREE STANDARDS BASED ON</b><br><b>CURRENT TRANSFERABILITY AND</b><br><b>SACS FACULTY CREDENTIALS</b><br><b>GUIDELINES (COURSES WERE</b><br><b>REVIEWED BY DISCIPLINE/SCHOOL AND</b><br><b>APPROVED BY ACADEMIC DEANS AS OF</b><br><b>12/07/2006)</b><br><small>Note: if the row is "blank", no courses within the Prefix are applicable.</small> |
|--|--|
| ACG  | ACG 2001, 2001L, 2011, 2011L, 2021, 2021L, 2071, 2071L   |
| AFH  | AFH  |
| AFR (Air Force ROTC)   |  |
| AMH  | AMH  |
| AML  | AML  |
| ANT  | ANT  |
| ARC  | ARC  |
| ARE  | ARE  |
| ARH  | ARH  |
| ART  | ART  |
| ASC  |  |
| ASH  | ASH  |
| AST  | AST  |
| ATF (Except 2630L)   |  |
| AVM (Except 1062, 1520, 1521)  |  |
| AVS  |  |
| BCN  |  |
| BOT  | BOT  |
| BRC 1001   |  |
| BSC  | BSC  |
| BUL  | BUL 2130, 2241, 2242   |
| CCJ (Except 1102)  | CCJ (Except 1949, 2925, 2940, 2949, 2995)  |
| CDA 2528   |  |
| CGS (Except 1400, 1500, 1501, 1510, 1511, 1541, 1543, 1560, 1564, 1571, 1580, 1810, 1871, 2140C, 2423, 2567)                               | CGS 1060, 2405, 2423   |
| CHI  | CHI  |
| CHM  | CHM  |
| CIS 1000   |  |

CASSC Meeting  
February 13, 2007

|   |  |
|---|--|
| CJD (Except 1442, 1940)   | CJD (Except 1940)                        |
| CJT (Except 2994)   | CJT (Except 2990)                        |
| CLP   | CLP                                      |
| COE 1949  |  |
| COP (Except 1160, 1340, 2122, 2123, 2162, 2334, 2336, 2345, 2400, 2401, 2700, 2704) | COP 1170, 1220 (or equivalent languages) |
| COT   |  |
| CPO   | CPO                                      |
| CRW   | CRW                                      |
| CTE (Except 2781L, 2782L, 2783L, 2862, 2863, 2864)                                  | CTE 1401                                 |
| DAA   | DAA                                      |
| DAN (Except 1500, 1501)   | DAN                                      |
| DEH   |  |
| DEP   | DEP                                      |
| DES   |  |
| DIE   |  |
| ECO   | ECO                                      |
| ECP   | ECP                                      |
| ECS   | ECS                                      |
| EDF   | EDF (Except 1949, 2949)                  |
| EDG   | EDG (Except 2943)                        |
| EEC   |  |
| EEL   | EEL                                      |
| EET (Except 1949, 2949)   |  |
| EEX   | EEX                                      |
|   | EGN 2033                                 |
| EGS   | EGS 1001C, 1111C, 2311                   |
| EHD (Except 1402, 1941)   | EHD (Except 1941)                        |
| EME   | EME                                      |
| ENC 1210, 2302  | ENC (Except 0002, 0020, 0021)            |
| ENG   | ENG                                      |
| ENL   | ENL                                      |
| EST   |  |
| ETC   |  |
| ETD   |  |
| ETE   |  |
| ETG   |  |
| ETI   |  |
| ETM   |  |
| ETN (Except 1350, 1351, 2352, 2455)   |  |
| EUH   | EUH                                      |
| FIL (Except 2278, 2945)   | FIL 1400, 2102                           |
| FIN 2000  | FIN 2000                                 |

CASSC Meeting  
February 13, 2007

|                                     |   |
|-------------------------------------|---|
| FOT                                 | FOT 2122, 2123                                      |
| FRE                                 | FRE   |
| FRW                                 | FRW   |
| FSS 1115, 2431                      |   |
| GEA                                 | GEA   |
| GEB                                 |   |
| GEO                                 | GEO/GIS   |
| GER                                 | GER   |
| GEY (Except 2000)                   |   |
| GLY                                 | GLY   |
| GRA (Except 1949, 2949)             | GRA 1111C, 2117C, 2190C, 2191C                      |
| HAI                                 | HAI   |
| HBR                                 | HBR   |
| HFT (Except 1949, 2949)             | HFT 1000  |
| HLP (Except 1082)                   | HLP 1080, 1081, 1083, 1087                          |
| HOS                                 |   |
| HAS                                 |   |
| HSC (Except 1200, 2531, 2532, 2554) | HSC 1152, 2100, 2400, 2531                          |
| HUM 2513, 2574                      | HUM   |
| HUN                                 | HUN   |
| HUS                                 | HUS   |
| IDH                                 |   |
| IND                                 | IND 1020, 1100, 1130, 1200, 2210, 2220, 2430        |
| INP                                 | INP   |
| INR                                 | INR   |
| ISC                                 | ISC   |
| ISS                                 | ISS 1120, 1161, 2270                                |
| ITA                                 | ITA   |
| JOU                                 | JOU (All course are transferable except for majors) |
| JPN                                 | JPN   |
| JST                                 | JST   |
| LAH                                 | LAH   |
| LEI                                 | LEI 1920, 1921, 2920                                |
| LIN                                 | LIN   |
| LIS                                 | LIS   |
| LIT                                 | LIT   |
| MAC                                 | MAC   |
| MAD                                 | MAD   |
| MAN (Except 1949, 2949)             |   |
| MAP                                 | MAP   |
| MAR                                 |   |
| MAS                                 | MAS   |
| MCB                                 | MCB   |

CASSC Meeting  
February 13, 2007

|   |   |
|---|---|
| MET   | MET   |
| MGF   | MGF   |
| MIS (Army ROTC)   |   |
| MKA (Except 1949, 2949)   |   |
| MMC   | MMC   |
| MRE (Except 2920, 2930)   |   |
| MTG 2204, 2204L   | MTG   |
| MUC   | MUC   |
| MUE   | MUE   |
| MUG   | MUG   |
| MUH   | MUH   |
| MUL   | MUL   |
| MUM   |   |
| MUN   | MUN   |
| MUO   | MUO   |
| MUS   | MUS   |
| MUT   | MUT   |
| MVB   | MVB   |
| MVJ   | MVJ   |
| MVK   | MVK   |
| MVO   | MVO   |
| MVP   | MVP   |
| MVS   | MVS   |
| MVV   | MVV   |
| MVW   | MVW   |
| NUR   |   |
| OCB   | OCB   |
| OCE   | OCE   |
| OPT   |   |
| ORH (Except 2234, 2277, 2932, 2949)   |   |
| ORI 2000  | ORI 2000                                    |
| OST (Except 1741, 1741L, 1742, 1742L, 1821, 1949, 2224, 2387, 2388, 2822, 2930, 2949) |   |
| PAD   | PAD   |
| PCB   | PCB   |
| PCO   | PCO   |
| PEO   |   |
| PEH   |   |
| PEP   | PEP   |
| PEQ   | PEQ   |
| PET (Except 2303, 2303L, 2940)  | PET (Except 2303, 2303L, 2940)              |
| PGY   | PGY 2110C, 2111C, 2401C, 2410C, 2470C, 2475 |
| PHH   |   |

CASSC Meeting  
February 13, 2007

|  |  |
|--|--|
| PHI  | PHI  |
| PHM  | PHM  |
| PHT (Except 2120, 2120L, 2931)                       |  |
| PHY  | PHY  |
| PLA  | PLA 2003, 2104, 2114, 2203, 2223, 2273, 2303, 2600, 2800 |
| POR  | POR  |
| POS  | POS  |
| POT  | POT  |
| PPE  | PPE (refer to CLP)                                       |
| PSB  | PSB  |
| PSC  | PSC  |
| PSY  | PSY  |
| PUR  | PUR  |
| QMB  | QMB  |
| RAT  |  |
| REA 1106, 1205                                       |  |
| REE  |  |
| REL  | REL  |
| RET (Except 1273, 1273L, 1830, 1841, 2930,2931,2932) |  |
| RTE (Except 2061)                                    |  |
| RUS  | RUS  |
| RTV  |  |
| SLS 1401   | SLS 1401   |
| SOP  | SOP  |
| SOW  | SOW  |
| SPA  | SPA  |
| SPC (Except 2440, 2447L)                             | SPC  |
| SPN (Except 1030, 1031)                              | SPN  |
| SPT  |  |
| SPW  | SPW  |
| STA  | STA  |
| SUR  |  |
| SYG  | SYG  |
| TAX  |  |
| THE  | THE  |
| TPA  | TPA  |
| TPP  | TPP  |
| TRA  |  |
| VIC  | VIC  |
| WHO  | WHO  |
| ZOO  | ZOO  |

11. **Announcements**

Joseph McNair reminded everyone to visit the Black History/Black Heritage exhibits at the campuses, and encouraged faculty to bring their classes to the exhibits and events. Many amazing events have been held during the past weeks, and special events are scheduled for the next few weeks.

Pamela Menke announced that on Friday, February 22<sup>nd</sup> at 8:00 p.m., the Latin American Music Festival will be held, and the Rhythm and Blues Festival will be held on Saturday, February 23<sup>rd</sup> at 6:00 p.m. Both events will be held at North Campus, and promise to be extraordinary experiences.

The meeting was adjourned at 2:25 p.m.

**Schedule of CASSC Meetings**  
**2006-2007**

|                |                       |           |
|----------------|-----------------------|-----------|
| April 10, 2007 | Medical Center Campus | Room 1175 |
| May 15, 2007   | Wolfson Campus        | Room 2106 |
| June 12, 2007  | Wolfson Campus        | Room 2106 |
| July 10, 2007  | Wolfson Campus        | Room 2106 |

**NO MEETING IN AUGUST**