UNIVERSITY COLLEGE of the FRASER VALLEY

Approved by PAC: 26 March 2003
To UCC: 16 April 2003

PROGRAM ADVISORY COMMITTEE

APPROVED MINUTES

December 4, 2002
9:00 a.m. - Room A416
Abbotsford Campus

PRESENT: Bill Cooke (Chair), Susan Brigden, Vi Chappell, Virginia Cooke, Sandra Flynn, Rebecca Frechette, Elaine Harris, Lynn Kirkland-Harvey, Barbara Salingré, Patti Wilson

REGRETS: Paul Burkhart, Sheldon Frank, Gary Ridsdale

GUESTS: Jean Atkinson, Jean Ballard, Edith Camm, Neil Campbell, Donna Costello, Tom Davis, Peter Mulhern, Greg Schlitt, Hamish Telford, Noham Weinberg

ADMINISTRATIVE ASSISTANCE: Yvonne Boylan

This PAC meeting was a continuation of the November 27, 2002 meeting agenda – starting at Item # 3.8.

3.8 Social Cultural & Media Studies: Change to Course: ANTH 111

Jean Ballard reviewed the changes made to ANTH 111 course outline: a change in title to "**First Nations of British Columbia-Traditional Cultures"** was made to put emphasis on First Nations, and to make clear that the focus of the course is on culture. A calendar description change was made to emphasize that anthropological perspective and anthropological literature that are used in the course. A change in the learning objectives was made to update current practice. PAC did not make any changes to the presentation. Implementation date is September 2003.

Motion: **L. Kirkland Harvey / V. Chappell**

To approve the proposed revisions to ANTH 111 course outline.

APPROVED

Calendar Copy (page 206)

ANTH 111 **3 credits**
~~**B.C. First Nations (Traditional Life)**~~
First Nations of British Columbia-Traditional Cultures
Prerequisites: None
Transferability: UBC, SFU, UVic, OU, TWU, UNBC

An introduction to the anthropological literature on the indigenous cultures of the coast and interior of the Pacific Northwest, with an emphasis on British Columbia. Topics include the archaeological record, languages, resource use, social structure, ceremonies, and culture change following the arrival of Europeans and the expansion of the Canadian state.

3.9

Physics Department

3.9.1 Changes to Courses: PHYS 101, PHYS 105, PHYS 111, PHYS 112

PHYS 101: Following a discussion it was decided that credits could **not** be changed from 4 to 5 credits until further discussions took place at UCC. Other proposed changes were to the synonymous courses section, total hours per term, and text list. PAC recommended the removal of the word "course" from the calendar description and an addition to the note in the calendar description to read**: "Students with PHYS 111 can not take PHYS 101 for further credit."** Prerequisites were revised to read: **"One of (Principles of MATH 12 or UCFV MATH 094/095), and one of (Physics 11, PHYS 083, PHYS 100). Students enrolling in MATH 111 might wish to enroll in PHYS 111."**

PHYS 105: Credit for this course was **not** changed from 4 to 5 credits. PAC recommended the prerequisites read: "**Principles of Math 12 and Physics 11. One of Physics 12 or PHYS 101 or PHYS 111 highly recommended."** Other proposed changes were to the calendar description, prerequisites, contact hours, maximum enrolment, learning objectives, student evaluation, and course content.

PHYS 111: Credit for this course was **not** changed from 4 to 5 credits. PAC recommended that a note be added to the calendar description to read: **"Students cannot take PHYS 100 or PHYS 101 for further credit."** Other revisions were to synonymous course note, total hours per term, and learning objectives

PHYS 112: Credit for this course was **not** changed from 4 to 5 credits. Total hours per term were modified.

Motion: **S. Brigden / B. Salingré**

To approve revisions to PHYS 101, PHYS 105, PHYS 111, and PHYS 112, with amendments and no change in credit value.

APPROVED

Calendar Copy (page 277)

PHYS 101 **4 credits**
Introductory General Physics: Mechanics of Fluids
Prerequisites: One of (Principles of MATH 12 or UCFV MATH 094/095), and one of (Physics 11, PHYS 083, or PHYS 100). Students enrolling in MATH 111 might wish to enroll in PHYS 111.

This is an introductory non-calculus Physics course. The course covers Newtonian mechanics; motion, momentum, and energy of particles, rigid rotating bodies, and fluids. The object of the course is to develop both an understanding of physical laws and to develop logical problem solving skills. The course has lectures, tutorials, and laboratory experiments.
Note: Physics 111 is the entry course for upper-level physics. Students with PHYS 111 can not take PHYS 101 for further credit.

PHYS 105 **4 credits**
Non-Calculus Physics
Prerequisites: Principles of Math 12 and Physics 11. One of: Physics 12 or PHYS 101 or PHYS 111 highly recommended.

Though suitable for all science students, this course is of particular interest to students taking biology and chemistry. Topics include: thermodynamics, waves, geometric and wave optics, electricity and instrumentation, and an introduction to quantum phenomena. This course can be taken by students who only need one non-calculus physics course and already have Grade 12 physics, or can be the second half of a full-year non-calculus program. The course can also be used in combination with Physics 111 as an entry into a UCFV physics major, although Physics 111 and 112 is the preferred route.
Note: Both PHYS 101 and PHYS 105 are often required for transfer.

3.9.2 Modification to the Engineering Transfer Program Prerequisites and Modification of Class size on ENGR 151.

Peter Mulhern noted that the Chemistry department is modifying CHEM 101/102 courses and they will not remain a sufficient entry level to the Engineering Transfer program. In the future students will have to take CHEM 113/114 which has a Chemistry 12 prerequisite. Entrance requirements should now read:

1. B.C. Secondary school graduation or equivalent, Principles of Math 12 (B or better), Physics 11 (Physics 12 is recommended), Chemistry 11, and (for Fall 2004 entry, Chemistry 12 is required).
2. Before applicants are admitted they must either attend an information/interview session.

Because of timetabling constraints, there has been an informal arrangement to allow Engineering Transfer students with only Chemistry 11 into CHEM 113. That can be continued for one more year if necessary, but students are being told to take Chemistry 12 if at all possible prior to coming to UCFV.

Motion: **V. Cooke / B. Salingré**

To approve revisions to the prerequisites to the Engineering Transfer Program and with amendments.

APPROVED

Modification of Class Size on ENGR 151: Following a discussion it was decided that no PAC action was required on this item.
That PAC does not approve class sizes. The item requesting modification of class size to 24 students for ENGR 151was treated as information for PAC.

Calendar Copy (page 149)

Entrance requirements

1. B.C. secondary school graduation or equivalent, Principles of Math 12 (B or better), Physics11 (Physics 12 is recommended), and Chemistry 11 (Chemistry 12 is required for Fall 2004).
2. Before applicants are admitted they must attend an information/interview session.

Notes ……

3.9.3 New Course: PHYS 455

Peter Mulhern noted that this is one of the key physics courses necessary to train a student for industry or graduate school. The emphasis of the course is on the basic properties of solid matter, the current models used to describe these basic properties, and analysis tools are of great use in industrial and research labs.

Following a review of the course outline PAC made a typo correction to the calendar copy and rearranged wording of the prerequisites to read: **one of PHYS 222, or PHYS 381), and a course involving thermodynamics, (one of PHYS 231, PHYS 381, or CHEM 324), and a course involving quantum mechanics, (one of PHYS 252, PHYS 351, or CHEM 224), and a course involving vectors, (one of MATH 152, MATH 211, or PHYS 221).**

Motion: **P. Wilson / S. Brigden**

To approve PHYS 455 new course outline with amendment.

APPROVED

Calendar Copy (page 279)

PHYS 455 **3 credits**

Solid State Physics
Prerequisites: **A course involving PDE's (one of: PHYS 222, or PHYS 381), and a course involving thermodynamics, (one of: PHYS 231, PHYS 381, or CHEM 324), and a course involving quantum mechanics, (one of: PHYS 252, PHYS 351, or CHEM 224), and a course involving vectors, (one of: MATH 152, MATH 211, or PHYS 221).**

This course develops the basic principles of metal and semiconductor solids, including crystal and structural properties, phonons, thermal properties, and electrical properties. The course also discusses practical applications including x-ray diffraction, magnetism, and alloying.

A discussion was held on crediting and re-crediting Physics courses based on contact hours. It was felt that the assignment of credit policy was rather restrictive and was really only guidelines.

Motion:
P. Wilson / S. Brigden

That PAC approves the concept of re-crediting the first-year Physics courses from 4 to 5 credits.

DEFEATED

PAC noted that there would be further discussion at UCC on the changing of credits from 4 to 5 for some courses, thus, at this time the credit value would not be changed. If UCC makes changes then the request for credit changes could be brought back to PAC.

3.10 Chemistry Department

3.10.1 Changes to a Program: Chemistry Major and Minor

Noham Weinberg noted that starting September 2003, CHEM 213/214 will replace CHEM 211/212 and the department requested that the appropriate changes be made in the program requirements for the Chemistry major and Chemistry minor.

Motion: **B. Salingré / S. Brigden**

To approve proposed changes to the Chemistry major and minor program requirements by replacing CHEM 211/212 with CHEM 213/214.

APPROVED

Calendar Changes (page 144)

Chemistry major
This section specifies the chemistry major discipline requirements only. See the Bachelor Science degree section for additional requirements.
Lower-level requirement

Course	Title	Credits
CHEM 111	Principles of Chemistry I,	4
Or CHEM 113	Principles of Chemistry I	4
CHEM 112	Principles of Chemistry II,	4
Or CHEM 114	Principles of Chemistry II	4
~~CHEM 211~~	~~Organic Chemistry I,~~	~~4~~
~~**Or**~~ CHEM 213	Organic Chemistry I	4
~~CHEM 212~~	~~Organic Chemistry II~~	~~4~~
~~**Or**~~ CHEM 214	Organic Chemistry II	4
CHEM 221	Inorganic Chemistry	4
CHEM 224 ……..		

Chemistry minor

This section specifies the Chemistry minor discipline requirements only. Students need to combine these minor requirements with another science minor or major. See the Bachelor of Science degree section for

additional requirements and the appropriate sections for the chosen major or minor.

Lower-level requirements

Course	Title	Credits
CHEM 111	Principles of Chemistry I,	4
Or CHEM 113	Principles of Chemistry I	4
CHEM 112	Principles of Chemistry II,	4
Or CHEM 114	Principles of Chemistry II	4
~~CHEM 211~~	~~Organic Chemistry I,~~	~~4~~
~~**Or**~~ CHEM 213	Organic Chemistry I	4
~~CHEM 212~~	~~Organic Chemistry II~~	~~4~~
~~**Or**~~ CHEM 214	Organic Chemistry II	4
CHEM 221	Inorganic Chemistry	4
MATH 111 ……..		

3.10.2 New Courses: CHEM 105, CHEM 110, CHEM 213, and CHEM 214

PAC reviewed each Chemistry course.

CHEM 105: PAC did not make any changes to course outline as presented.
CHEM 110: PAC recommended that the prerequisites read: "**Chemistry 11 or CHEM 084 and Principles of MATH 11 or MATH 084/085 or equivalent."**
CHEM 213: PAC did not make any changes to this course outline.
CHEM 214: PAC suggested the title to this course read: "**Organic Chemistry II."** Corrections were made to the calendar description by deleting the sentence "**Carbohydrates is continued if incomplete in CHEM 213."**

Motion: **V. Cooke / L. Kirkland Harvey**

To approve new courses: CHEM 105, CHEM 110, CHEM 213, and CHEM 214 as amended.

APPROVED

Calendar Copy (page 220 – 221)

CHEM 105 **4 credits**
Introductory Chemistry for the Health and Environmental Sciences
Prerequisites: Chemistry 11 or CHEM 083

CHEM 105 is intended for students who require a lab science course to fulfill the requirements for other UCFV programs. It is an introductory lab course for students with a high school science background, and relates important scientific principles to the chemistry of the environment and the body. CHEM 105 will satisfy part of the science requirements for a BA degree, but the course may not be used for credit by science or engineering majors. CHEM 105 provides important background material for students intending to enter a variety of health sciences programs, and other programs requiring general chemistry. The course will provide students with information on the origins, scientific background, and significance of many aspects of chemistry that are met in the workplace and in everyday life.
Note: CHEM 105 is not open for students with CHEM 110 or above.

Calendar Copy (page 220 – 221) cont'd:

CHEM 110 **4 credits**
Introductory Chemistry
Prerequisites: Chemistry 11 or CHEM 083; and Principles of Math 11 or MATH 084/085 or equivalent.

This course covers the principles of chemical kinetics and thermodynamics, redox processes, electrochemistry, and chemistry of solutions, including solubility and acid-base equilibria. It can be used as a prerequisite to CHEM 113 for those missing secondary school CHEM 12 and wishing to enroll in CHEM 113/114.

CHEM 213 **4 credits**
Organic Chemistry I
Prerequisites: One of: CHEM 101(with B or better), or CHEM 111 or CHEM 113; and one of: CHEM 102 (with B or better), or CHEM 112, or CHEM 114.

An introduction to the subject of organic chemistry through a study of the characteristic reactions of the common functional groups. Study of the chemistry of the alkanes, alkenes, alkynes is continued from first year. Alkyl halides, alcohols, aldehydes and ketones, carbohydrates and ethers are also discussed. Particular emphasis is placed on the study of reaction mechanisms, and the importance of stereochemistry is stressed throughout the course. The laboratory component of the course complements the lecture material and gives students experience in using some of the basic techniques that are employed in modern chemistry laboratories. This course is required for students pursuing careers in chemistry, biology, biochemistry, home economics, forestry, pre-medicine and pharmaceutical science.

CHEM 214 **4 credits**
Organic Chemistry II
Prerequisites: CHEM 213

Organic Chemistry II continues the systematic examination of the reactions of common functional groups that were featured in CHEM 213. Aromatic compounds including phenols, carbonyl condensation reactions, carboxylic acids and their derivatives are studied. Biological topics include amino acids, peptides, proteins, phospholipids, terpenes, steroids, nucleic acids and the Krebs Cycle. Spectroscopy is studied and the importance of spectroscopic techniques in the analysis of organic compounds is emphasized. These techniques will be used in the laboratory component of the course. With CHEM 213, this course satisfies organic chemistry requirements for students pursuing careers in chemistry, biology, biochemistry, home economics, forestry, pre-medicine and pharmaceutical science.

3.10.3 Changes to Courses: CHEM 113 and CHEM 114 Credit Change From 4 to 5 Credits

Following a discussion it was decided not to change the credit value of these courses. PAC suggested the prerequisites for CHEM 113 be reworded to read: "**One of: Chemistry 12, or CHEM 093, or CHEM 110, plus Principles of Math 12 or equivalent.** Pre-Corequisites: **MATH 111 (PHYS 111 is strongly recommended)" and** that the prerequisites for CHEM 114 be amended in the course outline to reflect what is in the calendar.

Motion: **B. Salingré / V. Chappell**

That PAC approves revisions to CHEM 113 and CHEM 114 course outlines with no the credit changes.

APPROVED

Calendar Copy (220)

CHEM 113 **4 credits**
Principles of Chemistry I
Prerequisites: One of: Chemistry 12, or CHEM 093, or CHEM 110, plus Principles of Math 12 or equivalent
Pre- or Corequisites: MATH 111, (PHYS 111 is strongly recommended).

3.10.4 Prerequisite Changes: CHEM 221, 224, 241, 324, 311, 312, 341, 422, 451, 455

First-year prerequisites for the second-year chemistry courses proposal were discussed and reviewed.

CHEM 221 PAC made no changes to the proposed prerequisite changes.

CHEM 241 PAC made no changes to the proposed prerequisite changes.

CHEM 224 PAC made no changes to the proposed prerequisite changes.

CHEM 324 PAC made no changes to the proposed prerequisite changes.

Second-year prerequisites for the upper-level chemistry courses were discussed and reviewed.

CHEM 311 PAC made no changes to the proposed prerequisite changes.

CHEM 312 PAC made no changes to the proposed prerequisite changes.

CHEM 341 PAC made no changes to the proposed prerequisite changes.

CHEM 422 PAC made no changes to the proposed prerequisite changes.

CHEM 451 PAC made no changes to the proposed prerequisite changes.

CHEM 455 PAC made no changes to the proposed prerequisite changes.

Motion:
B. Salingré / R. Frechette

That PAC approve the proposed prerequisite changes to CHEM 221, 241, 224, 324, 311, 312, 341, 422, 451, and 455 as presented.

APPROVED

Calendar Copy (page 221- 223)

CHEM 221 **4 credits**
Inorganic Chemistry
Prerequisites: One of: CHEM 113, or CHEM 111, or CHEM 101 (with B or better); and one of: CHEM 114, or CHEM 112, or CHEM 102 (with B or better).
Note: After April 2005 CHEM 101, 102, 111, 112 will no longer meet prerequisites for this course.

CHEM 241 **4 credits**
Analytical Chemistry
Prerequisites: One of: CHEM 113, or CHEM 111, or CHEM 101 (with B or better); and one of: CHEM 114, or CHEM 112, or CHEM 102 (with B or better).
Note: After April 2005 CHEM 101, 102, 111, 112 will no longer meet prerequisites for this course.

Calendar Copy (pages 221 – 223) cont'd:

CHEM 224 **Atoms, Molecules, Spectra** Prerequisites: One of: CHEM 113, or CHEM 111, or CHEM 101 (with B or better); and one of: CHEM 114, or CHEM 112, or CHEM 102 (with B or better); plus either PHYS 111/112 or PHYS 105, and MATH 111/112. (MATH 211 is recommended.) **Note:** After April 2005 CHEM 101, 102, 111, 112 will no longer meet prerequisites for this course.	**4 credits**
CHEM 324 **Chemical Kinetics and Thermodynamics** Prerequisites: One of: CHEM 113, or CHEM 111, or CHEM 101 (with B or better); and one of: CHEM 114, or CHEM 112, or CHEM 102 (with B or better); plus either PHYS 111/112 or PHYS 105, and MATH 111/112. (MATH 211 is recommended.) **Note:** After April 2005 CHEM 101, 102, 111, 112 will no longer meet prerequisites for this course.	**4 credits**
CHEM 311 **Intermediate Organic Chemistry I** Prerequisites: One of: CHEM 211 or CHEM 213; and one of: CHEM 212 or CHEM 214.	**4 credits**
CHEM 312 **Intermediate Organic Chemistry II** Prerequisites: One of: CHEM 211 or CHEM 213; and one of: CHEM 212 or CHEM 214.	**4 credits**
CHEM 455 **Chemistry of Biological and Synthetic Polymers** Prerequisites: One of: CHEM 211 or CHEM 213; and one of: CHEM 212 or CHEM 214.	**3 credits**
CHEM 341 **Instrumental Analysis/Applied Spectroscopy** Prerequisites: CHEM 211 or CHEM 213; and CHEM 241.	**4 credits**
CHEM 422 **Conformations of Molecules and Introduction to Computer-aided Drug Design** Prerequisites: CHEM 211 or CHEM 213; CHEM 224; MATH 111/112; and one of: PHYS 105 or PHYS 111.	**4 credits**
CHEM 451 **Bio-inorganic Chemistry** Prerequisites: CHEM 221 and CHEM 321	**3 credits**

3.10.5 <u>Course Deletions From the Calendar: CHEM 100, 101, 102, 211, 212, 222, 231, 322, 411, 441</u>

Noham Weinberg noted that these courses had not been offered for a number years or had been replaced by other courses and for these reasons he requested that they be deleted from the calendar. PAC agreed.

<u>Motion</u>:

V. Chappell / V. Cooke

To approve the removal of CHEM 100, CHEM 101, CHEM 102, CHEM 211, CHEM 212, CHEM 222, CHEM 231, CHEM 322, CHEM 411, and CHEM 441 from the calendar.

APPROVED

<u>NOTE</u> TO CALENDAR COPY: [REFERENCE TO THE FOLLOWING COURSES SHOULD BE DELETED FROM THE CALENDAR IN OTHER AREAS SUCH AS HEALTH SCIENCES AND ARTS.]

Calendar Copy (page 220)

~~**CHEM 100 4 credits**~~ ~~**Everyday Chemistry**~~
~~**CHEM 101 4 credits**~~ ~~**General Chemistry I**~~
~~**CHEM 102 4 credits**~~ ~~**General Chemistry II**~~
~~**CHEM 211 4 credits**~~ ~~**Organic Chemistry I**~~
~~**CHEM 212 4 credits**~~ ~~**Organic Chemistry II**~~
~~**CHEM 222 4 credits**~~ ~~**Physical Chemistry**~~
~~**CHEM 231 4 credits**~~ ~~**Transition Metal Chemistry**~~
~~**CHEM 322 4 credits**~~ ~~**Intermediate Physical Chemistry**~~
~~**CHEM 323 4 credits**~~ ~~**Physical Chemistry for the Life Sciences**~~
~~**CHEM 411 4 credits**~~ ~~**Organic and Bio-organic Mechanisms**~~
~~**CHEM 441 4 credits**~~ ~~**Analytical Chemistry /Applied Molecular Spectroscopy**~~

3.11 Social Work and Human Services: Calendar revision previously approved at PAC on October 25, 2000

Bill Cooke noted that as long as PAC has approved an item the Calendar Committee or the department can make the correction to the calendar.

Calendar Copy (page 180)

Academic regulations During the course of their BSW studies, students are required to: • Complete a minimum of 120 credits with a minimum of ~~52~~ 51 upper-level credits.

3.12 College and Career Prep Program

3.12.1 Prerequisite Change to BIO 083Course

Following a discussion PAC recommended that the prerequisite read: "**Science 10, or SCI 071, or (BIO 071 and CHEM 071); and CCP department permission."**

Motion:
S. Brigden / V. Chappell

To approve prerequisite change to BIO 083 as amended.

APPROVED

Calendar Copy (page 211)

BIO 083 (Biology 11) **Pre-College Biology I (4,0,3)** Prerequisites: **"Science 10, or SCI 071, or (BIO 071 and CHEM 071); and CCP department permission."**	**4 credits**

3.12.2 Prerequisite Changes to MATH 051, MATH 061, and MATH 071

MATH 051: Jean Atkinson noted that the prerequisite changes were made to bring the course outlines up-to-date. PAC recommended that the prerequisites read: **"Individual CCP assessment and permission of the CCP department."**

MATH 061: A typo correction was made to textbooks section. PAC suggested that the prerequisites read: **"MATH 051 or individual CCP assessment; and CCP department permission."**

MATH 072: PAC suggested that the prerequisite read: "**MATH 061 or individual CCP assessment; and CCP department permission."**

Motion:
S. Brigden / S. Flynn

To approve the prerequisite revisions to MATH 051, MATH 061, and MATH 071 as amended.

APPROVED

Calendar Copy (page 266)

MATH 051 **Fundamental Mathematics I** Prerequisites: Individual CCP assessment and permission of the CCP department.	**4 credits**
MATH 061 **Fundamental Mathematics II** Prerequisites: MATH 051 or individual CCP assessment; and CCP department permission.	**4 credits**
MATH 072 **Intermediate Algebraic Mathematics** Prerequisites: MATH 061 or individual CCP assessment; and CCP department permission.	**4 credits**

3.13 ESL: Calendar Changes Previously Approved by PAC

Neil Campbell noted that English Second Language program outline was not entered in the calendar even though it was approved in April 1998 and he requested that PAC approve entering it in the calendar as approved and updated and amended by PAC as follows: "ESL Core Subjects – change 50 to 60; under Levels 70 & 80 change to read "TOEFL prep", and change the last sentence to read: Individualized ESL self-study program in multi-media computer assisted language training lab.

Neil also noted that ESL courses were updated to eliminate duplication of information. He also noted that there are several courses in the calendar that need to be deleted because they have never been offered. It was suggested that he bring the list of courses to be deleted back to PAC in January for approval.

Motion:
B. Salingré / L. Kirkland Harvey

To approve the ESL program outline as amended, be entered in the UCFV calendar.

APPROVED

Motion:
V. Cooke / B. Salingré

To approve the list of ESL course description as presented with alternative versions and the list of course deletions to be brought to the PAC January meeting for approval.

APPROVED

Calendar Copy (page 8)

Faculty of Arts and Applied Arts

~~**English as a Second Language**~~
~~General courses; Intermediate, advanced, and academic certificates~~

Faculty of Community Access, Business, & Information Technology

English as a Second Language
General courses; Intermediate, advanced, and academic certificates

Calendar Copy (page 9)

Upgrading –
College and Career Prep and English as a Second Language (ESL) courses

- Courses are scheduled 12 months a year in Abbotsford, 10 months a year in Chilliwack.
- Can be taken ….

Calendar Copy (page 11)

College & Career Prep/
English as a Second Language
Listed below ….

English as a Second Language
Full-time
Abbotsford ……Sept., 2003 to Aug., 2003
Chilliwack ……Sept., 2003 to June, 2003

Calendar Copy (page 27)

Direct Telephone Numbers - Abbotsford

English as a Second Language ……..(604) 854-4581

Calendar Copy (page 42)

Applied Arts

~~**English as a Second Language**~~

Calendar Copy (page 81 & 82)

English as a Second Language

[*Move this section to Faculty of Community Access, Business, & Information Technology – page 123 of the calendar]*

Calendar Copy (page 81)(Moved to page 123)

Schedule
September 3 – December 17, 2003
January 8 – April 21, 2004
May 3 – June 25, 2004
July 5 – August 20, 2004
Special programs may be offered at different times.

Calendar Copy (page 81) (Moved to page 123)

English Second Language
Program outline

The English Second Language program (ESL) at the University College of the Fraser Valley (UCFV) combines in-depth training in core language skills at six levels with a choice of electives to suit the individual needs of students. The gradual shift from ESL into academic subjects gives students practical support during this transition and accustoms students to the increased study time required in academic studies. This approach also helps maximize student success in further academic or career programs by providing students with the opportunity to develop the skills required in Canadian universities. On completion of this program students receive a certificate and are eligible for entry into academic programs.
All Reading, Vocabulary, Writing/Grammar, Speaking courses are considered "core." All other courses are "electives."

Semesters:
1. Fall: September to December
2. Winter: January to April
3. Spring: May to June
4. Summer: July to August

ESL CORE SUBJECTS	**ELECTIVES**
o Level 30 – 60 Pre-intermediate to Advanced Writing, grammar, reading, vocabulary, and speaking.	**PLUS** two electives: ESL courses
o Level 70 Advanced 2 Writing, grammar, reading, and speaking.	**PLUS** three electives: Two ESL courses and one other academic, pre-college or ESL course.
o Level 80 Pre University	**PLUS** three elective: One ESL

and Writing, grammar, and reading. two other academic, pre-college or ESL courses.

ELECTIVES

- o Levels 30 – 60

  Pronunciation 45 & 65, Phonetics 55, Drama, Music, BU55, TOEFL preparation, English Through Film, Tutorial, Oral Communication for Academic Purposes.

- o Levels 70 – 80

  Business English, TOEFL preparation, English Through Film, Academic Transition, Oral Communication for Academic Purposes, On-Line Reading, Phonetics 55, Pronunciation 65.

Individualized ESL self-study programs in multi-media computer assisted language training lab.

Calendar Copy (page 88)

English as a Second Language

Calendar Copy (page 303)

Calendar Copy (page 243)

English as a Second Language
Note: ……
Skill-based courses (non-intensive)
ESL WG34: ESL Writing and Grammar Pre-Intermediate **6 credits**
Prerequisites: ESL 129 or equivalent, or placement by interview test.

- ~~Introduction to paragraph form using basic grammatical structure.~~
- ESL WG34 is intended for students who have completed ESL I29, or who can show on an interview test that they have the equivalent competence in using English. This course is designed to round out students' learning of survival written English and prepare them for the more academically oriented intermediate ESL writing classes. The course will introduce students to common forms and functions of modifiers, common regular and irregular verbs, and simple sentence structure. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but the main focus of the course is on simple writing.

ESL WG44: **6 credits**
ESL Writing and Grammar Intermediate I
Prerequisites: ESL I39 or ESL W34 or equivalent, or placement by interview test.

- ~~Paragraph order, narrative directions~~
- ~~Letters of request, complaint; friendly letters~~
- ~~Building on grammar forms~~
- ESL WG44 is intended for students who have completed ESL I39, or ESL WG34 or who can show on an interview test that they have the equivalent competence in using English. This course introduces students to the more academically oriented intermediate ESL writing. It is designed to give students a good grasp of the simple sentence and the simple paragraph, and to provide them with an introduction to complex/compound sentences and letters of request and complaint. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but the main focus of the course is on simple writing.

ESL WG54: **6 credits**
ESL Writing and Grammar Intermediate II
Prerequisites: ESL WG44 or equivalent, or placement by interview test.

- ~~Mastery of paragraph form~~

- ~~Letters for many situations~~
- ~~Writing mechanics: punctuation, capitalization~~

ESL WG54 is intended for students who have completed ESL WG44 or who can show on a placement test that they have the equivalent competence in using English. This course is designed to give students near mastery of the simple sentence and to provide them with a good grasp of complex/compound sentences and basic paragraph writing. The course will introduce students to coordinate or subordinate conjunctions, gerunds and infinitives, passive verb forms, comparative and superlative adjective and adverb forms. It will also introduce students to adjective and noun clauses, direct/indirect speech, conditional clauses, and usage of wish. There will be remedial instruction in sentence structure as required. Students will not be able to advance beyond ESL WG54 until they have mastered basic English sentence structure in their writing. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but focus of the course is on writing.

ESL WG64: 6 credits
ESL Writing and Grammar Advanced I
Prerequisites: ESL WG54 or equivalent, or placement by interview test.

- Logical arrangement in varied paragraph types
- All relevant types of letters
- Much more advanced grammar including sequence of tenses and confusing choices

ESL WG64 is intended for students who have completed ESL WG54 or who can show on a placement test that they have the equivalent competence in using English. This course is designed to give students near mastery of the English sentences and basic paragraph writing. The course will help students to reach near mastery in their use and understanding of a wider range of noun, adjective, and adverb clauses, and parallel structures. It will also expand students' understanding and use of regular and irregular noun plurals, unusual subject-verb agreements, less common pronoun agreements, and mastery of article usage with geographical names, buildings, titles, historical events and political terms. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but focus of the course is on writing.

ESL WG74: 6 credits
ESL Writing and Grammar Advanced II
Prerequisites: ESL WG64 or equivalent, or placement by interview test.

ESL WG74 is intended for students who have completed ESL WG64 or who can show on a placement test that they have the equivalent competence in using English. This course is designed to give students near mastery of English paragraph writing. The objective of the course is student mastery of the full verb/verbal and article systems of English. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but focus of the course is on writing.

ESL WG84: **6 credits**
ESL Writing and Grammar Bridge I
Prerequisites: ESL WG74 or equivalent, or placement by interview test.

ESL WG84 is intended for high level students with academic aspirations and a good grasp of English structure who still have residual difficulties with some aspects of structure or usage and who have completed ESL WG74 or who can show on a placement test that they have the equivalent competence in using English. This course is designed to introduce students to the research paper and to the writing of essay exams. It is intended to help these students achieve mastery of all English grammar. The focus will be on the use of grammar in effective communication and on variety of expression. Some reading, vocabulary study, grammar, and speaking/listening may be involved, but focus of the course is on writing.

Reading sequence:
ESL R30: **3 credits**
ESL Reading Pre-Intermediate
Prerequisites: ESL I29 or equivalent, or placement by interview test.

- ~~To about Grade 4 reading level~~

ESL R30 is intended for students who already have a reading vocabulary of about 1000 words. The course is designed to teach an additional 1000 words plus rudimentary reading skills in general comprehension, finding the main idea, making inferences, and using context clues. It also includes studies of meaningful work parts, prefixes and suffixes.

ESL R40 **3 credits**
ESL Reading Intermediate I
Prerequisites: ESL I39, or ESL R30 and ESL V33 or equivalents, or placement by interview test.

- ~~To about Grade 5 reading level~~

ESL R40 is designed for students who have a solid foundation in reading and who want to strengthen their reading skills for academic, personal, or career purposes. The course will familiarize students with a selection of current fiction and non-fiction on a wide range of subjects. Students will learn to predict content, to understand point of view, and to be sensitive to word connotation and tone. Skimming, speed reading, and reading for concepts (rather than word-by-word) are introduced.

ESL R 50: **3 credits**
ESL Reading Intermediate II
Prerequisites: ESL R40 and ESL V43 or equivalents, or placement by interview test.

- ~~To about Grade 6 reading level~~

ESL R50 is designed for intermediate students who wish to continue to strengthen their reading skills for academic, personal, or career purposes. The course will take students through a selection of novels and readings on current issues. Students will continue to learn to predict content, to understand point of view, and to be sensitive to word connotation and tone. They may also be introduced to one or more of the following (depending on choice of text): reading a table of contents, reading maps, diagrams, charts and flowcharts, and Canadian consumer law.

ESL R60 **3 credits**
ESL Reading Advanced I
Prerequisites: ESL R50 and ESL V53 or equivalents, or placement by interview test.

- ~~To about Grade 8 reading level~~

ESL R60 is designed for advanced students who wish to continue to strengthen their reading skills for academic, personal, or career purposes. The course will take students through a selection of short stories, readings on current issues, and a (simplified) novel. Students will also work on understanding and using the newspaper. The focus will be on moving beyond word-by-word reading to reading for ideas. Specific reading skills – skimming, scanning, surveying, predicting, generalizing, summarizing, synopsizing, inferring, and concluding – area further developed.

ESL R70 **3 credits**
ESL Reading Advanced II
Prerequisites: ESL R60 and ESL V63 or equivalents, or placement by interview test.

- ~~To about Grade 10 reading level~~

ESL R70 is designed for advanced students who wish to continue to strengthen their reading skills for academic, personal, or career purposes. The course will take students through a selection of short stories, readings on current issues, and a (simplified) novel. Students will also learn much about the history, culture, and politics of Canada. The focus will be on content rather than on the reading process. The specific reading skills of ESL R60 are further developed, and to them is added an appreciation of style.

ESL R80 **3 credits**
ESL Reading Bridge I
Prerequisites: ESL R70 and ESL V73 or equivalents, or placement by interview test.

- ~~To about grade II reading level~~

ESL R80 is designed for very advanced students who wish to continue to strengthen their reading skills particularly for academic purposes. The course will expose students to a selection of lengthy readings, journal articles, non-ESL textbook chapters, poems, and unsimplified novels. The focus will be on content rather than on the reading process. Students will learn study-reading skills: note-taking, diagramming, understanding and restating logical structure, summarizing, paraphrasing, integrating, varying reading speed according to purpose.

Vocabulary sequence:

ESL V33: **3 credits**
ESL Vocabulary Pre-Intermediate
Prerequisites: ESL 129 or equivalent, or placement by interview test.

- ~~Learn approximately 600 more base words~~
- ~~Recognize/understand/use approximately 450 more common idioms~~

ESL V33 is intended for students who already have a reading vocabulary of about 1000 words. The course is designed to teach an additional 400 base words (and their related forms) plus recognition of about 150 common idioms. It also includes studies of meaningful word parts, prefixes and suffixes, multiple meanings, synonyms and antonyms, meanings in context.

ESL V43 **3 credits**
ESL Vocabulary Intermediate I
Prerequisites: ESL V33 or ESL 139 or equivalent, or placement by interview test.

- ~~Learn approximately 450 more base words~~
- ~~Recognize/understand approximately 450 more common idioms~~

ESL V43 is intended for students who already have a reading vocabulary of about 1500 base words. The course is designed to teach an additional 450 base words (and their related forms) plus recognition of about 450 common idioms. It also includes studies of meaningful word parts, prefixes and suffixes, multiple meanings, synonyms and antonyms, meanings in context, usage.

ESL V53: **3 credits**
ESL Vocabulary Intermediate II
Prerequisites: ESL V43 or equivalent, or placement by interview test.

- ~~Learn approximately 500 more base words~~
- ~~Recognize/understand approximately 450 more common idioms~~

ESL V53 is intended for students who already have a reading vocabulary of about 2000 base words and a good basic knowledge of idioms. The course is designed to teach an additional 450 base words (and their related forms) plus recognition of about 450 common idioms. It also includes studies of meaningful word parts, prefixes and suffixes, multiple meanings, synonyms and antonyms, meanings in context, usage.

ESL V63: **3 credits**
ESL Vocabulary Advanced I
Prerequisites: ESL V53 or equivalent, or placement by interview test.

- ~~Learn approximately 600 more base words~~
- ~~Recognize/understand/use approximately 450 more common idioms~~

ESL V63 is intended for students who already have a reading vocabulary of about 1500 base words and a good basic knowledge of idioms. The course is designed to teach an additional 600 base words (and their related forms) plus recognition of about 450 common idioms. It also includes studies in independent vocabulary development.

ESL V73 **3 credits**
ESL Vocabulary Advanced II
Prerequisites: ESL V63 or equivalent, or placement by interview test.

- ~~Learn approximately 600 more base words~~
- ~~Recognize/understand/use approximately 450 more common idioms~~

ESL V73 is intended for students who already have a reading vocabulary of about 3100 base words and a good basic knowledge of idioms. The course is designed to teach an additional 600 base words (and their related forms) plus recognition of about 450 common idioms. It also includes studies in independent vocabulary development and the use of the thesaurus.

ESL V83: **3 credits**
ESL Vocabulary Bridge I
Prerequisites: ESL V73 or equivalent, or placement by interview test.

- ~~Recognition and use of wide range of words and expressions~~

ESL V83 is intended for students with academic aspirations and a strong vocabulary base. The course is designed to teach about a thousand academic base words (and their related forms), and a selection of idioms. It also includes studies in independent vocabulary development

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Speaking/Listening sequence:

ESL S36: **3 credits**
ESL Listening/Speaking Pre-Intermediate
Prerequisites: ESL I29 or equivalent, or placement by interview test.

- ~~Complain, apologize, express thanks~~
- ~~Give/ask opinions and information~~
- ~~Other language functions at a simple level~~

ESL S36 is intended for students who have completed ESL I29 or who have the equivalent competence in using English. This course is designed to round out students' learning of survival spoken English, provide the beginnings of free communication, and prepare students for the oral/aural component of the more academically oriented intermediate ESL classes. Though some reading, writing, grammar and vocabulary study may be involved, the primary focus is on listening, speaking and pronunciation.

ESL S46 **3 credits**
ESL Listening/Speaking Intermediate I
Prerequisites: ESL S36 or ESL I39 or equivalent, or placement by interview test.

- ~~use the telephone for all common purposes~~
- ~~give/accept condolences, congratulations, warnings~~
- ~~other language functions, more complex~~.

ESL S46 is intended for students who have completed ESL S36 or ESL I39 or who have the equivalent competence in using English. This course gets students started with the oral/aural component of the academically oriented intermediate ESL classes. Though some reading, writing, grammar and vocabulary study may be involved, the primary focus is on listening, speaking and pronunciation.

ESL S56: **3 credits**
ESL Listening/Speaking Intermediate II
Prerequisites: ESL S46 or equivalent, or placement by interview test.

- Understand and interpret the media
- Other language functions, more complex

ESL S56 is intended for students who have completed ESL S46 or who have the equivalent competence in using English. This course is designed to build on student's previous learning and help them toward greater fluency and competence in the use of English. Though some reading, writing, grammar and vocabulary study may be involved, the primary focus is on listening, speaking and pronunciation

ESL S66: **3 credits**
ESL Listening/Speaking Advanced I
Prerequisites: ESL S56 or equivalent, or placement by interview test..

- ~~Sensitivity to level of formality~~

ESL S66 is intended for students who have completed ESL S56 or who have the equivalent competence in using English. This course is designed to build on students' previous learning and help them toward greater fluency and competence in the use of English. Though some reading, writing, grammar and vocabulary study may be involved, the primary focus is on listening and speaking.

ESL S76: **3 credits**
ESL Listening/Speaking Advanced II
Prerequisites: ESL S66 or equivalent, or placement by interview test.

- ~~Communicate successfully with fluency and confidence 95%~~
- ~~Express wishes, hopes, intentions~~

ESL S76 is intended for students who have completed ESL S66 or who have the equivalent competence in using English. This course is designed to help students to fluency and confidence in successful communication and understanding in English. Though some reading, writing, grammar and vocabulary study may be involved, the primary focus is on listening and speaking.

ESL L87: **3 credits**
ESL Listening Bridge I
Prerequisites: ESL S76 or equivalent, or placement by interview test.

- ~~Understand lecture organization~~
- ~~Recognize language cues and conventions~~
- ~~Understand 90% of natural speech~~

ESL L87 is intended for students with academic aspirations and good oral skills. The course will expose students to a variety of academic listening situations, taped and live, and develop students' abilities to understand complex language at full speed. The course will also cultivate rudimentary note-taking skills.

~~**Special classes**~~ **Electives:**

ESL BUS: **……. ESL MSC:**

ESL P45: **3 credits**
ESL Pronunciation I
Prerequisites: Successful completion of at least three (3) 40-level ESL courses.

- ~~Improve listening and speaking skills~~
- ~~Focus son sounds~~

This course is intended for intermediate to advanced ESL students who would like to improve their listening and speaking skills. It teaches sounds as part of the rhythm and stress used in informal English and focuses on difficult sounds from a variety of perspectives.

ESL P55: **3 credits**
ESL Phonics/Spelling/Pronunciation
Prerequisites: Successful completion of at least three (3) 40-level courses.

- ~~The relationships between English spelling, sounds, and pronunciation~~

This course is intended for Intermediate/Advanced ESL students who still find sit difficult to understand the relationships between the English spelling and sound systems. The course will survey the English sounds represented by a given spelling as well as all the possible spellings for a given sound. It will also deal with word and phrase stress, rhythm, intonation, and reductions in rapid speech as well as use of dictionary pronunciation keys.

ESL P65: **3 credits**
ESL Pronunciation II
Prerequisites: Successful completion of at least three (3) 40-level ESL courses.

- ~~Study rhythm, stress, and intonation~~
- ~~Concentrate on clear communication~~
- ~~Study rhythm, stress, and intonation~~
- ~~Concentrate on clear communication~~

This course is intended for intermediate to advanced ESL students who would like to improve their listening and speaking skills by studying rhythm, stress, and intonation. It concentrates on which parts of each sentence are essential for clear communication. It includes techniques for improving listening comprehension of formal lectures and oral presentations

Calendar Copy (page 245)

~~**Part-time Beginner**~~
~~**(non-intensive evening classes)**~~
~~The combination ……ESL 119~~

- ~~ESL B11: ESL Beginner I, Part I 3 credits~~
- ~~ESL B12 ……~~
- ~~ESL B18: ESL Beginner I, Part VIII 3 credits~~

3.13 Mathematics and Statistics: Change to Courses: MATH 115, 211, 214, 221, 225, 235, 255, and 270

Greg Schlitt noted that the course outlines have been moved onto the new forms and minor changes (no significant changes) made to the content, credit, etc.

MATH 270: It was noted that the calendar description and prerequisites were revised. Prerequisites to read: **MATH 112, or a C or better in MATH 116.**

MATH 255: Calendar description was revised and the prerequisites were revised to read: **MATH 112 and one of MATH 152, or MATH 221, or PHYS 221 (Note: MATH 221 or PHYS 221 may be taken as a prerequisite or corequisite.)**

MATH 211: The calendar description and learning objectives were revised.

MATH 214: The calendar description and title were revised.

MATH 221: No revisions made.

MATH 225: PAC suggested the title read: "Topics in Discrete Mathematics" on the course outline. Calendar description was revised. Under synonymous courses – Replaces MATH 243 was added.

MATH 235: Prerequisite or Corequisite was changed to read: "**At least one of: MATH 106, MATH 152, MATH 211, MATH 221, or MATH 270."**

MATH 115: PAC requested that the prerequisites read: "**Principles of Math 12 with C+ or higher (provincially examined), or UCFV MATH 094/095 with C+ average or higher, or MATH 110 with C+ or higher, or C+ in Applications of Math 12 until Fall 2004."**

Motion:
L. Kirkland Harvey / P. Wilson

To approve the revisions to MATH 115, MATH 211, MATH 214, MATH 221, MATH 225, MATH 235, MATH 255, and MATH 270 as amended.

APPROVED

Calendar Copy (page 146)

Mathematics major
This section ….
Lower-level requirements: 39-41 credits

Course	Title	Credits
MATH 111….		
MATH 270	**Introduction to Analysis**	**3**

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MATH 115 **4 credits**
Differential and Integral Calculus I

Prerequisites: Principles of Math 12 with C+ or higher (provincially examined), or UCFV MATH 094/095 with C+ average or higher, or MATH 110 with C+ or higher, or C+ in Applications of Math 12. (**Note:** Applications of Math 12 will not meet the prerequisites effective Fall 2004.)

MATH 211 **3 credits**
Calculus III

Prerequisites: MATH 112 with C or better, or MATH 116 with C or better
This course extends the concepts of first-year calculus from the one-variable setting to a multi-variable setting. Topics include 3-dimensional analytic geometry, Euclidean spaces, partial derivatives and gradient, optimization, multiple integrals and applications.

MATH 214 **3 credits**

Introduction to Analysis
Prerequisites: MATH 112 with at least a C (a B is recommended)

This course provides an introduction to some of the fundamental ideas of mathematical analysis; the subject which forms the rigorous foundation for calculus. It also introduces the students to the concept of proof, and provides techniques for constructing and analyzing proofs. It serves as a very good preparation for upper-level mathematics course. Topics include: logical connectives and quantifiers, elementary set theory including the ideas of infinite cardinality, properties of the real numbers such as density and completeness, limits and convergence of sequences and functions, continuity, differentiability, Cauchy sequences, in the Extreme and Mean value theorems, uniform continuity, and series convergence.

MATH 225 **3 credits**

Topics in Discrete Mathematics
Prerequisites: MATH 125

This course introduces the student to some of the most useful type of combinatorial structures: graphs, trees, generating functions, and recurrence relations, all of which play an important role in the mathematics of computers and computation.

MATH 235 **3 credits**

Mathematical Modeling
Prerequisites: MATH 112 or MATH 116

Pre- or Corequisites: At least one of: MATH 106, MATH 152, MATH 211, MATH 221, or MATH 270

MATH 255 **3 credits**

Ordinary Differential Equations
Prerequisites: **MATH 112 and one of: MATH 152, or MATH 221, or PHYS 221 (Note: MATH 221 or PHYS 221 may be taken as a prerequisite or corequisite.)**

Most mathematical models of a physical process are in the form of differential equations. This course provides various techniques and ideas in solving ordinary differential equations with an emphasis on applications. Graphing calculators and Maple are used in this course. Topics include first- and second-order linear differential equations, non-linear equations, series solutions, Laplace transform methods, and linear systems.

MATH 270 **4 credits**

Introduction to Probability and Statistics
Prerequisites: MATH 112, or a C or better in MATH 116

An introduction to the theory and practice of statistics for engineering, science and mathematics students who have experience with calculus. Topics include descriptive statistics elementary probability theory, expectation and variance of random variables, bionomial, hypergeometric, Poisson, exponential and normal distributions, sampling distributions, confidence intervals and hypothesis tests for means and proportions, tests of goodness-of-fit and independence, correlation, simple linear regression.

3.15 Biology Department:

3.15.1 Credit Changes to Courses: BIO 111 and 112

Edith Camm requested that this item be deferred to the same meeting that Chemistry will be discussing credit changes.

3.15.2 Calendar Copy Changes to: BIO 201, BIO 202, BIO 203, and BIO 401 - and Course Deletion: BIO 204

BIO 201: Edith Camm noted that the department was trying to keep the biology calendar entries updated to reflect the changes in Chemistry by the addition of CHEM 213and CHEM 214. The Pre- or Corequisites to read: **"CHEM 211 or CHEM 213."**

BIO 202: Revisions to this course were withdrawn.

BIO 203: Edith noted that prerequisite wording was changed for clarity. PAC suggested that prerequisites read: "**BIO 112 and one of: CHEM 112, CHEM 114, or CHEM 101 plus CHEM 102 with a "B" or better in each."**

BIO 204: Edith requested that this course be deleted from the calendar as it has not been offered in years and has been replaced by BIO 324.

BIO 401: Prerequisite changes were made to accommodate changes in chemistry courses and to give students warning about the level of the course. PAC suggested that the prerequisites read: **"BIO 201, BIO 202, BIO 220, and either CHEM 211 or CHEM 213, and either CHEM 212 or CHEM 214. One of either BIO 312 or BIO 320 is strongly recommended."**

Motion:
S. Brigden / R. Frechette

To approve the changes to prerequisites to BIO 201, BIO 203, BIO 401 to reflect changes in addition of Chemistry courses; and to approve the deletion of BIO 204.

APPROVED

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BIO 201 **Cell Biology I (3, 0, 3)** Prerequisites: BIO 112 ~~and CHEM 211~~ Pre- or Corequisites: CHEM 211 or CHEM 213	**4 credits**
BIO 203 **Microbiology I (3,0,3)** Prerequisites: **BIO 112 and one of: CHEM 112, CHEM 114, or CHEM 101 plus CHEM 102 with a "B" or better in each.**	**4 credits**
~~**BIO 204**~~ ~~**Microbiology II (2,0,3)**~~	~~**4 credits**~~
BIO 401 **Molecular Biology I (3,2,0)** Prerequisites: BIO 201, BIO 202, BIO 220, and either CHEM 211 or CHEM 213, and either CHEM 212 or CHEM 214. One of either BIO 312 or BIO 320 is strongly recommended.	**3 credits**

3.15.3 Change to Program: Biology Major, Minor and Extended Minor

Edith Camm requested that CHEM 213 be added to the lower-level requirements for the Biology major, Biology minor, and Biology extended minor.

Motion:

V. Cooke / R. Frechette

To approve the changes to the Biology major, Biology minor, and Biology extended minor by allowing the addition of the alternative course CHEM 213.

APPROVED

Calendar Copy (page 143)

Biology major

This section ….
Lower-level requirements

Course	Title	Credits
BIO 111 …….		
CHEM 211	Organic Chemistry I	4
Or CHEM 213	Organic Chemistry I	4
PLUS …..		

Biology minor

This section ……
Lower-level requirements

Course	Title	Credits
BIO 111 …….		
CHEM 211	Organic Chemistry I	4
Or CHEM 213	Organic Chemistry I	4
PLUS …..		

Biology extended minor

(applies to the Bachelor of Arts degree)

This section ……
Lower-level requirements

Course	Title	Credits
BIO 111 …….		
CHEM 211	Organic Chemistry I	4
Or CHEM 213	Organic Chemistry I	4
PLUS …..		

3.16 Political Science: New Courses: POSC 210, POSC 310, and POSC 410

Hamish Telford noted that the new courses were part of the letter of intent for a minor in Political Science. Applying these courses to an existing minor was not discussed by the department. It was felt that these courses are a very good addition to the political science curriculum and their application to the minors may be coming to PAC in the future. It was suggested that the courses be articulated with philosophy.

POSC 210: PAC did not make any changes to this course.

POSC 310: Transfer credit will be requested.

POSC 410: Transfer credit will be requested. Structure of hours should be changed to: Seminar 45 hours.

Motion:

V. Cooke / V. Chappell

To approve new course outline for POSC 210, POSC 310, and POSC 410 as amended.

APPROVED

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POSC 210 **3 credits**
Canadian Constitutional Politics
Prerequisites: POSC 110
Corequisites: None

This course will survey Canada's constitutional "odyssey" from 1763 to the present, with a strong emphasis on the post-Confederation period. More specifically, the course will focus on the efforts to patriate the constitution in the post-World War II era and the political consequences of those efforts. The course will examine the different perspectives on the constitution advocated by the various actors in the Canadian political process – governments, parties, and interest groups. Special attention will be paid to the changing terms of the debate as new actors – women, new Canadians, and Aboriginal peoples – joined the constitutional conversation. Finally, the course will assess where Canada now stands in relation to its constitutional "odyssey" and the most appropriate processes for constitutional reform.

POSC 310 **3 credits**
Canadian Federalism
Prerequisites: POSC 110 or POSC 210
Corequisites: None

This course will examine the origin and development of federalism in Canada from 1867 to the present. The course will focus on the difficulties of creating and managing a social welfare state in a federal political system. Particular attention will be paid to the challenge dividing and sharing fiscal resources. Special attention will also be devoted to how the various mega-constitutional orientations present in Canada affect the operation of the federal political system. The course will conclude with an examination with the challenge of incorporating municipal and aboriginal governments into the federal system and the concomitant idea of multilevel governance. Finally, we shall examine the relationship between democracy and federalism.

POSC 410 **3 credits**
Intergovernmental Relations in Canada
Prerequisites: POSC 210 and POSC 310
Corequisites: None

This course will provide a detailed examination of the processes of intergovernmental relations in Canada. While the theory of federalism posits that there should be two orders of government each with their own sphere of jurisdiction, the practice of federalism in Canada entails considerable intergovernmental collaboration. Almost every policy sector has a federal - provincial interface, which for the most part is managed by a legion of civil servants. A central proposition of this course is that executive federalism is alive and well in Canada. We will evaluate the processes of executive federalism and to consider the ramifications of managing the federation through these processes.

3.17 Computer Information Systems

3.17.1 Changes to the CIS Degree Program Requirements

This items was deferred to the December 11, 2002 PAC meeting.

3.17.2 New Courses: CIS 146, CIS 341, CIS 371, CIS 392, and COMP 350

CIS 146: Shelley Drysdale reviewed the development of this course. PAC suggested that the prerequisites should read: **CIS 145, or permission of instructor. Familiarity with basic web skills is required. Students should consult the CIS web page at www.ucfv.bc.ca/cis/ for details."** Implementation date: September 2003.

CIS 341: PAC suggested prerequisites should read: "**Acceptance to the CIS degree program."** Implementation date: Winter 2004.

CIS 371: PAC did not make any changes to this course. Implementation date: September 2003

CIS 392: It was noted PLA should be available by challenge. It was noted that it has 5 credits which is allowed because it is a new course. Implementation date: September 2003

COMP 350: PAC did not make any changes.

3.17 cont'd:

Motion:

L. Kirkland Harvey/B. Salingré

To approve new course outlines for CIS 146, CIS 341, CIS 371, CIS 392, and COMP 350 with amendments.

APPROVED

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CIS 146 **3 credits**
Web Publishing – Intermediate

Prerequisites: CIS 145, or familiarity with basic web skills, or permission of instructor. Students should consult the CIS web page at www.ucfv.bc.ca/cis/ for details.
Pre- or Corequisites: COMP 150

The objective of this course is to teach students with a working knowledge of HTML how to design, organize, and maintain an intermediate level website. Students will learn Cascading Style Sheets and JavaScript programming at an intermediate level. Students will learn a general-purpose scripting language that is especially suited for Web development and can be embedded into HTML at an introductory level. This course is intended for students with a working knowledge of HTML and basic web skills such as those listed for CIS 145. Student without experience with HTML should take CIS 145.

CIS 341 **3 credits**
System Administration
Prerequisites: Acceptance to the CIS degree program

The objective of this course is to teach students how to plan, install, configure, performance tune and administer a multi-user Unix/Linux-based system.

CIS 371 **3 credits**
Object Oriented Modeling & Design
Prerequisites: CIS 270 and acceptance to the CIS degree program

Using an object-oriented approach, students of this course will study how to create requirements models and then use those models in the design and construction of good quality software. The unified modeling language (UML) will be used extensively throughout this course.

CIS 392 **5 credits**
Internetworking
Prerequisites: Acceptance to the CIS degree program. Completion of CIS 292 or CCNA certification.

This course provides advanced Routed Internetwork knowledge. Students will learn how to install, configure and troubleshoot complex Internetworks as found in medium to large organizations. Topics include routing protocols such as BGP, OSPF, EIGRP, and RIP and advanced IP address management techniques in large scaleable networked environments. Other related topics include traffic management with access control lists, redundant default gateways and the related security issues when routing between multiple autonomous systems.

COMP 350 **3 credits**
User Interface Design and Programming
Prerequisites: Acceptance to the CIS degree program

This course introduces students to some theory and practical guidelines for designing usable and enjoyable human-computer interfaces, emphasizing user-centered design and graphical user interfaces. It illustrates techniques of programming for a graphical user interface using a variety of modern programming environments and operating systems.

3.17.3 Changes to CIS Courses: CIS 115, CIS 145, CIS 285, COMP 445, and COMP 155 (CIS 192 and CIS 292 credit change deferred to another meeting)

CIS 115: Shelley Drysdale noted that changes were made to the title, and calendar description. Other programs will be made aware that this course is available because it is being offered as a computer literacy course for students who are not in the CIS program. Implementation date: January 2003.

CIS 145: Changes were made in prerequisites, pre- or corequisites, and course description. Implementation date: September 2003

CIS 285: Prerequisite calendar corrections which were previously approved by PAC. Implementation date: September 2003.

COMP 445: Prerequisite calendar correction which were previously approved by PAC. Implementation date: September 2003.

COMP 155: Prerequisite calendar correction which were previously approved by PAC with the inclusion of Math 12.

Motion: **V. Chappell / S. Brigden**

To approve revisions to CIS 115 and CIS 145 course outlines.

APPROVED

Motion: **S. Brigden / V. Chappell**

To approve the prerequisite effective date for CIS 285 and COMP 445 and the inclusion of Math 12 in prerequisites for COMP 155.

APPROVED

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CIS 115 **3 credits**
~~**Foundations of Computer Information Systems**~~
Introduction to Computer Information Systems
Prerequisites: None

This is a computer literacy course designed for students who are not enrolled in CIS programs. This course provides students with a broad understanding of the ideas and issues in computing and computer information systems. Concepts include hardware and software, representation of data, and program and system development issues. This course cannot be used for credit in CIS programs.

CIS 145 **Web Publishing**	**3 credits**
Co- or Prerequisites:	Familiarity with Windows is essential for success in this course. Students should consult the CIS web page at www.ucfv.bc.ca/cis/ for details.
~~Co- or prerequisites:~~	~~COMP 150~~
The objective of this course is to teach students how to design, organize and maintain a basic website. Students will learn how to publish a working website on the World Wide Web using HTML scripting, multi-media plug-ins, cascading style sheets and javascript programming at an introductory level. This course is intended for students with no prior knowledge of HTML or basic web skills. Student with experience with HTML should take CIS 146.	
COMP 155 **Object-oriented Programming**	**4 credits**
Prerequisites:	COMP 150 with a C+ or better, and B.C. Principles of Math 12 or MATH 110 or MATH 095 with a C+ or better.

3.18 Business Administration – (Deferred to December 11, 2002 PAC meeting)

4. INFORMATION ITEM

No items provided for this meeting.

5. ADJOURNMENT

Move to adjourn at 1:30 p.m.

NEXT PAC EXTRAORDINARY MEETING

WEDNESDAY, DECEMBER 11, 2002
9:00 A.M. – ROOM A416
ABBOTSFORD CAMPUS