Course Outline Review Signature Page

Date of Review: 2013-09-03

Semester: Fall 2013

Course name & number: Biology 025 F

Program Name: College Preparation

Instructor submitting the outline for review (print name): Maureen Clarke

Chairperson Review

I Margo Vermillion (Print Name) verify that I have reviewed this course outline, and it meets all the requirements of the College’s new course outline policy.

Chairperson Signature: [Signature]

*Note: outlines not meeting policy guidelines must be returned to the instructor, revised and resubmitted to the Chairperson for review. Responsibility: Chairperson.

Dean’s Review

I ___________________________ (print name) verify that I have reviewed this course outline, and it meets all the requirements of the College’s new course outline policy. Signature: ___________________________

*Note: outlines not meeting policy guidelines, after the Chairperson verifies that it does, must be returned to the Chairperson. The Chair will work one-on-one with the instructor to ensure the outline is revised and resubmitted for review to the Dean. Responsibility: Dean.

Students in each course must be given a policy-compliant course outline. If a student is given an outline that proved inadequate, the Chairperson will ensure that the revised copy is given to the student and that the learner understands that that copy is the valid outline. The policy-compliant copy will be posted on the course website if one exists; old or non-compliant copies will be removed.

Electronic copies [pdf] of each approved course outline, with this attached signature page, must be submitted by the Dean to the Registrar by the second week of the applicable semester. These will be held by the Registrar.

Course outlines must be submitted for review on semester by semester basis. Stale-dated outlines, recycled from a previous term without review and updating, are immediately declined.
KEYANO COLLEGE         Fort Chipewyan

COLLEGE PREPARATION PROGRAM

Fall     2013         Room 114

Biology 025         Lecture F

Instructor:         Maureen Clarke

Office Hours:       Monday:  2:00 – 2:50     3:00 – 3:50
                    Tuesday:  2:00 – 2:50
                    Wednesday: 11:00 – 11:50
                    Thursday:  2:00 – 2:50

Office Hours:       Monday:  2:00 – 2:50
                    Tuesday:  2:00 – 2:50

Office Phone:       (780) 697- 3767
Home Phone:         (780) 697 – 3923

E-mail:             maureen.clarke@keyano.ca
                    mauclarke@yahoo.com

Course Hours:       Monday:  11:00 – 11:50
                    Tuesday:  11:00 – 11:50     12:00 – 12:50
                    Wednesday: 12:00 – 12:50
                    Thursday:  12:00 – 12:50
                    Friday:  11:00 – 11:50

Hours of Instruction: 6 50-minutes classes per week

Length of Course:    16 weeks

Prerequisite:        Math 20-2, Math 10-1, Math 10-C or permission of the
                    Program Chair
Important Dates for Academic Schedule:

- Sept 2  College closed – Labor Day
- Sept 3  Fall semester begins – Orientation Day
- Sept 4  First day of classes for students
- Sept 10 Last day to add classes
- Sept 10 Fall semester fees due
- Sept 11 Full late fee applied
- Sept 17 Last day to drop course(s) for academics
- Oct 11  Last day to withdraw from course(s) with 50% refund of tuition fees
- Oct 14  College closed – Thanksgiving Day
- Oct 25  Last day to withdraw without academic penalty
- Nov 11  College closed – Remembrance Day
- Dec 12  Last day of class
- Dec 13 - 18  Final Exams
- April 26 Graduation – Fort Chipewyan
- Dec 20  End of fall semester for academic programs

Course Description:

Topics studied include: cells, protein synthesis, DNA, genetics, principles of classification and ecology

Course Outcomes:

At the completion of the course, students will be able to:

- Understand that the scientific method is used to solve problems
- Understand that all living organisms share certain characteristics
- Understand that biologists use many tools and techniques to study life
- Know that water is necessary for life to exist
- Understand that mass and volume define matter
- Understand the importance of DNA and its relationship with RNA and how heredity affects life
- Understand that the genetic code is universal in nature
- Understand that living organisms are composed of cells which are organized at varying levels of complexity and must divide in order for organism to grow
- Understand that genes are factors that control heredity.
- Understand that evolution is used to explain both the diversity and unity of life
- Understand that in natural selection, only the organisms whose characteristics are well-suited for their environment survive and reproduce
- Appreciate the relationships between humans and the natural world
- Foster an enjoyment of biology

Biology 025 consists of the following material:

UNIT 1  THE NATURE OF LIFE  Sept 4 - 10

Chapter 01  The Science of Biology  pp. 2 - 33
Chapter 02  The Chemistry of Life  pp. 34 – 61

UNIT 2  Ecology  Sept 11 - 23

Chapter 3  The Biosphere  pp. 62 - 85
Chapter 4  Ecosystems and Communities  pp. 86 - 117
Chapter 5  Populations  pp. 118 – 137
Chapter 6  Humans in the Biosphere  pp. 138 - 167

UNIT 3  Cells  Sept 24 – Oct 1

Chapter 7  Cell Structure and Function  pp. 168 – 199
Chapter 8  Photosynthesis  pp. 200 – 219
Chapter 10  Cell Growth and Division  pp. 240 – 259

MIDTERM 1

UNIT 4  GENETICS  Oct 2 - 16

Chapter 11  Introduction to Genetics  pp. 262 - 285
Chapter 12  DNA and RNA  pp. 286 - 317
Chapter 13  Genetic Engineering  pp. 318 - 339
Chapter 14  The Human Genome  pp. 340 - 365

MIDTERM 2

UNIT 5  EVOLUTION  Oct 17 - 31

Chapter 15  Darwin's Theory of Evolution  pp. 368 - 391
Chapter 16  Evolution of Populations  pp. 392 – 415
Chapter 17  The History of Life  pp. 416 – 445
Chapter 18  Classification  pp. 446 – 467

MIDTERM 3

UNIT 6  MICROORGANISMS and FUNGI  Nov 1 - 15
Chapter 19  Bacteria and Viruses  pp. 470 - 495
Chapter 29  Protists  pp.496 - 525
Chapter 29  Fungi  pp. 526 - 549

MIDTERM 4

UNIT 7  PLANTS  Nov 18 - 26
Chapter 30  Plant Diversity  pp. 550 - 577
Chapter 31  Roots, Stems and Leaves  pp. 578 - 607
Chapter 32  Reproduction of Seed Plants  pp. 608 - 629

MIDTERM 5

UNIT 8  INVERTEBRATE ANIMALS  Nov 27 – Dec 4
Chapter 26  Sponges, Cnidarians  pp. 656 - 681
Chapter 27  Worms and Mollusks  pp. 682 - 713
Chapter 28  Arthropods and Echinoderms  pp. 714 - 733
Chapter 29  Comparing Invertebrates  pp. 734 – 765

MIDTERM 6

UNIT 9  VERTEBRATE ANIMALS  Dec 5 - 9
Chapter 30  Nonvertebrate Chordates, Fishes and Amphibians  pp. 766 - 795
Chapter 31  Reptiles and Birds  pp. 796 - 819
Chapter 32  Mammals  pp. 820 - 847
Chapter 33  Comparing Chordates  pp. 848 - 869
Chapter 34  Animal Behavior  pp. 870 - 887

MIDTERM 7

UNIT 9  Chordates  Dec 10 - 11
Chapter 47  The Biosphere  pp. 1006 – 1031
Chapter 48  Populations and Communities  pp. 1032 – 1047
Chapter 49  People and the Biosphere  pp. 1048 – 1075

MIDTERM 8
REVIEW Dec 12
Final Exam TBA

Evaluation:
Attendance 5%
Assignments 35%
Midterms (5) 40%
Final Exam 20%
Total 100%

Grade Point

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Overall Expectations:
Please turn off cell phones, MP3 players and any other electronic devices during class time.

Assignments: Assignments must be dated and submitted to the instructor no later than 4:00 pm on the day on which the assignment is due. Late assignments will be accepted during the following week but a penalty of 2% per day to a maximum of 10% will be deducted from the assignment mark; after this extension, a zero will be awarded for the assignment. Exemptions for assignments may be granted in exceptional circumstances beyond the control of the student. A 5% bonus mark will be given to all assignments that are turned in on time.
Punctuality: Punctuality is important. Students are expected to be ready to begin work when the class is scheduled to begin. Therefore, students are encouraged to arrive at class a minute or two early so that they may organize their working materials by starting time. Late arrival is detrimental to the student and inconsiderate of the instructor and other students. Arrival in good time is associated with success and is considerate of the instructor and other students.

Attendance: Students are expected to attend all classes. Should a student miss a class for any reason it is his/her responsibility to cover the work missed and be ready for the next class.

If you want to be assured of success in this course the following three things will most often grant that to you.

1. Attend every day and get involved in the class. When you can’t attend, cover the work done anyway.
2. Ask a question when you do not understand the work and keep asking until you get an explanation you can understand.
3. Do all of the daily work given or give it your very best effort and get help with the parts you are unable to complete.

Student Rights and Responsibilities

Students should be aware of their rights and responsibilities as laid out in the Keyano College Credit Calendar 2013-2014. In order to “refrain from unduly disturbing, disrupting or otherwise interfering with studies...” (KCCC, 2013-2014, p. 36 - 40) students should turn cell phones and pagers off when they come to class, and refrain from bringing children or other visitors to class.
Learner Assistance Program (LAP)
If you have been diagnosed with a Learning Disability in the past, or you feel that you would benefit from some assistance from a Disabilities Counsellor, please call our office 780-792-5608 to book an appointment. Services and accommodations are intended to assist you in your course, while maintaining the academic standards of Keyano College. We can be of assistance to you in disclosing your disability to your instructor, receiving accommodations, and your overall a success at Keyano College.

HAVE A GREAT SEMESTER!!