

Associate of Science degree in Life Sciences—transfer to University of Oregon

Overview: Students receiving an Associates of Science in the Life Sciences degree will be prepared to transfer into upper division courses to complete a Bachelor of Science degree in Biology, Zoology, or other professional degree programs in the life sciences. Courses establish the foundations in understanding cellular processes, evolution, ecology, plant and animal physiology and population studies.

Careers: Career pathways include pre-pharmacy, pre-medical, pre-veterinarian, biological and zoology research fields, wildlife and fisheries management, and a wide range of related fields.

Program Outcomes:

- communicate complex ideas by demonstrating an ability to gather and analyze data, construct evidence-based arguments and critically evaluate information,
- be able to apply critical thinking to address biological phenomena using scientific processes,
- demonstrate an understanding of the complexity and diversity of life,
- analyze and construct relationships between human activities and the environment,
- recognize the contributions of scientific knowledge in contributing to technological advances and advancement the human condition.

Program Prerequisites: Students will be expected to have placed into Writing 121, Math 251 and Chemistry 221 or otherwise met these requirements.

Example Track: Associates of Science in Biology ---Transfer to University of Oregon

CCC to O of U Transfer Track 1					
Year 1			Year 2		
Credits	Fall Term CCC	UO	Credits	Fall Term CCC	UO
4	WR 121	WR 121	5	PH 201	PH 201 ³
5	CH 221	CH 221 ² & CH 227 (Lab)	5	MTH 251	MTH 251 ³
5	BI 211 ⁴	BI 211	5	CH 241	CH 331 ¹
			3	Core electives	Core elective
Credits	Winter Term	UO	Credits	Winter Term	UO
4	WR 122 or 123	WR 122 or 123	5	PH 202	PH 202 ³
5	CH 222	CH 222 ² & CH 228 (Lab)	5	MTH 252	MTH 252 ³
5	BI 212 ⁴	BI 212	5	CH 242	CH 335 ¹ or CH 336 ¹
Credits	Spring Term	UO	Credits	Spring Term	UO
5	CH 223	CH 223 ² & CH 229 (Lab)	5	PH 203	PH 203 ³
5	BI 213 ⁴	BI 213	5	CH 243	CH 335 ¹ or CH 336 ¹
3	Core elective	Core elective	3	Core electives	Core elective
4	CS120 or MTH 243 (recommended)	MTH or CIS to meet BS degree req.			

Total : 91 credits

1. Organic Chemistry—satisfies science major requirement but does not transfer at 300 level credits unless students passes the American Chemical Society organic chemistry exam with a 70% grade or better. Transfers as a combination of CH 331 and CH 335, or CH 336 without lab credit for a total of 8 credits. Students are encouraged to take the full year at CCC.
2. CH 221, 222 and 223 satisfy the General Chemistry lecture/ lab requirements but transfers as 5 credits per course.
3. Satisfies the requirements but transfer as 4 credits per course. Students may choose to take the physics requirement in their junior or senior year at U of O.
4. It is recommended that students complete the entire General Biology for Majors sequence, BI 211, BI-212 & BI 213, for the classes to transfer correctly. Students will take General Biology IV: Mechanisms, BI -214, at University of Oregon in their junior year.

From: [Pat Lombardi](#)
To: [Polly Schulz](#)
Cc: [Jana](#); [Cristin](#); [Carl](#); [Alan](#)
Subject: Fwd: Re: AS degree Clackamas Community college
Date: Wednesday, October 16, 2013 12:17:25 PM
Attachments: [COCC Pat"s minor comments 101513.docx](#)

Hi Polly,

Nice chatting with you today. As I had mentioned in our phone conversation, most of the comments I made previously on the attached were relatively minor.

Biology Advising at Oregon approves of the content of your chart assuming the columns clearly indicate CCC courses mapping to U of O courses and that *BI 214 Gen BI IV: Mechanisms* (formerly Biochemistry & Genetics) is indicated as a BI lower division requirement that must be completed at U of O. Jana Prikryl will call shortly and leave you a message at your 503-594-3358 phone number giving you her thoughts about the listing of BI 214 on your chart. If you would like to meet with BI 214 teaching staff (Alan Kelly, Carl Stiefbold) at Oregon at some point in the future about the potential for teaching BI 214 at CCC, I'm sure Jana would be willing to discuss. I would be willing to help as well, though I have not been directly involved in the instruction of this course with laboratories. In the meantime, here are the most recent websites for BI 214:

<http://biology.uoregon.edu/classes/bi214f13/default.htm>

<http://biology.uoregon.edu/classes/syllabi/SUM13/bi214syllabus.pdf>

Thanks for helping students with the transition from Clackamas Community College to U of O. We really appreciate your efforts.

Sincerely,

Pat Lombardi
Biology Advising

Date: Tue, 15 Oct 2013 17:44:43 -0700
To: Polly <pollys@clackamas.edu>
From: Pat Lombardi <lombardi@uoregon.edu>
Subject: Fwd: Re: AS degree Clackamas Community college
Cc: Jana <jprikryl@uoregon.edu>, Ingrid <ingridk@uoregon.edu>

Hi Polly,

I'm really sorry that it has taken so long for me to comment and I'm not sure if any of the minor comments within the attached will be helpful.

Unfortunately, we won't have time to review again after your next editing as we like you I'm sure are completely backlogged. I think the most helpful resource would be in addition to your advising for students to

have direct access to the U of O Transfer Database to see for themselves how courses come in:

http://registrar.uoregon.edu/current_students/transfer-articulation

For COCC to U of O:

<http://registrar.uoregon.edu/tce/index.php?state=OR&school=Clackamas+Community+College>

Best of luck, Polly, and again, sorry it took so long for me to examine.

Sincerely,

pat l

V. Patteson Lombardi, PhD
Research Asst Professor of Biology
Human Biology & Medical Physiology
Director, Biology Advising Center
<http://biology.uoregon.edu/advising/advising.php>
1210 University of Oregon
Department of Biology, Eugene, OR 97403-1210
Teaching Office/Lab: 541-346-4536; Advising: 541-346-4525/6055;
Facsimile: 541-346-6056
Electronic Mail: [mailto: lombardi@uoregon.edu](mailto:lombardi@uoregon.edu)
Faculty Website:
<http://biology.uoregon.edu/people/Lombardi/lombardi.php>
Introduction to Human Physiology:
<http://biology.uoregon.edu/classes/bi121f12/>
Investigations in Medical Physiology:
<http://biology.uoregon.edu/classes/bi358w13/>
Anatomy, Physiology & WT:
<http://biology.uoregon.edu/classes/bi199s13/>
Nutrition: Concepts & Controversies:
<http://biology.uoregon.edu/classes/bi199f12/>

Date: Wed, 09 Oct 2013 18:52:01 -0700
To: Cristin Hulslander <cristinh@uoregon.edu>, Jana Prikryl <jprikryl@uoregon.edu>
From: Pat Lombardi <lombardi@uoregon.edu>
Subject: Re: AS degree Clackamas Community college

I'm sorry I just haven't gotten to this, but will try to Friday.
I've got lecture and labs until 6 pm tomorrow.

Sincerely,

pat l

At 04:03 PM 10/9/2013, Cristin Hulslander wrote:

From: [Jana Prikryl](#)
To: [Polly Schulz](#); [Pat Lombardi](#)
Subject: Re: AS degree Clackamas Community college
Date: Wednesday, October 16, 2013 1:45:11 PM

Hi Polly,

I just left a message on your machine (I'm sorry about the excessive length). The proposed coverage of topics you sent looks pretty good to me. If student finish their writing and math requirements (calc II), Gen chem w/ labs, BI w/ labs, O chem w/ labs they are making great progress towards a bio major.

Our students usually take physics in their junior or senior year, or during the summer, so if your students come in with physics done they will be ahead of the curve.

BI 214 is a combination of genetics and biochemistry that is usually not found at other schools but many of our student take this class Fall of their Junior year so if a student transfers in after two year at CCC they would be on track to take BI 214 with the majority of our students.

LCC includes this site on their sheet to go along with the O chem blurb:

http://www.ous.edu/sites/default/files/state_board/jbac/files/organic.htm

Just for comparison, this is how I would advise our students:

Fist year: Gen chem w/ labs, Math (as far as they can get towards calc II), Writing, gen ed

Second year: O chem I and II (labs are only required for pre-med majors)(for transfer as 300 level student need I II and III), BI 211, 212, 213 (or honors bio), finish up the math

Third year: BI 214 (fall), Physics, upper division BI

But like I said, if they come in with physics done that's great. I hope this is helpful, please let me know if you have any questions or concerns.

Jana Prikryl

On 2013/10/04 11:33, Polly Schulz wrote:

- > Hi Jana
- >
- > Ingrid Newman has suggested we contact you regarding an AS degree
- > program for students wishing to transfer from Clackamas Community
- > College to U of O.
- >
- > Clackamas Community College is in the process of setting up an AS
- > degree in Biology for students who wish to transfer to U of O. Ingrid
- > and I spoke spring term on this topic and exchanged e-mails. As part

- > of this process, Ingrid suggested you should review our draft course
- > schedule for a student wishing to transfer to U of O, majoring in
- > biology. (I am attaching the suggested course list.)
- > We hope to have the degree approved for fall students. As part of
- > this process, we need documentation that U of O advising has reviewed
- > our suggest course list and it meets the typical student courses taken
- > for students transferring into U of O as biology majors in their
- > junior year.
- >
- > Thank you for your assistance on this issue.
- >
- > Polly Schulz, Lilly Mayer and Tory Blackwell
- >
- > Science dept---Biology
- >
- > Clackamas Community College