

**Pierce College Academic Senate
Attendance Roster
Monday, September 10, 2018**

Academic Senate Exec		
President	Anna Bruzzese	PRESENT
Past President	Anna Bruzzese	
1st VP	Michael Gend	PRESENT
2nd VP	Margarita Pillado	PRESENT
Treasurer	Angela Belden	PRESENT
Secretary	Susan Armenta	PRESENT
Senators		
Academic Affairs	Wendy Bass	ABSENT
Agriculture and Natural Resources	Jennifer Adelini	PRESENT
Anthropological and Geographical Sciences	Ronald "Sonny" Faulseit	PRESENT
Art and Architecture	Monika Ramirez Wee	PRESENT
At Large Full-Time	Bonnie Lemus	PRESENT
At Large Full-Time	Vacant	
At Large Full-Time	Vacant	
At Large Part-Time	Robert Gregg	PRESENT
At Large Part-Time	Mark Levick	PRESENT
At Large Part-Time	Michelle Meyer	ABSENT
Business Administration	Babken Basmadzhyan	ABSENT
Center for Academic Success	Eddie Tchertchian	PRESENT
Chemistry	Benny Ng	PRESENT
Child Development & Education	Patricia Doelitzsch	PRESENT
Communication Studies	Barbara Anderson	PRESENT
Computer Applications and Office Technologies	Jill Binsley	PRESENT
Computer Science and Information Technology	Luis Celada	PRESENT
Counseling	Jeanette Maduena	PRESENT
English and ESL	Karin Burns	PRESENT

History, Philosophy and Sociology	Christopher Lay	PRESENT
Industrial Technology	Alex Villalta	PRESENT
Kinesiology and Health	Jamie Phillips	PRESENT
Library Science	Clay Gediman	PRESENT
Life Sciences	Brandon Jones	PRESENT
Mathematics	Sam Pearsall	PRESENT
Media Arts	Jeff Favre	PRESENT
Modern Languages	Rafael Orozco-Ramirez	PRESENT
Nursing	Connie Tiu	PRESENT
Performing Arts Department	Garineh Avakian	PRESENT
Physics and Planetary Sciences	Adrian Soldatenko	PRESENT
Political Sci/ Econ/ CJ/ Chicano Studies	Denise Robb	PRESENT
Psychology, Statistics, Addiction Studies	Chad Snow	PRESENT
Student Services	Phyllis Schneider	PRESENT
Committees and Reps		
Academic Policy	Michael Gend	
Curriculum	Margarita Pillado	
DAS Rep	Fernando Oleas	PRESENT
DAS Rep	Margarita Pillado	
DAS Rep	Vacant	
Distance Education Instructional Technology	Clay Gediman	
Educational Planning	Anna Bruzzese	
Ethics	Cara Gillis	PRESENT
Events and Recognition	Jennifer Moses	PRESENT
Faculty Position Priority	Ann Hennessey	PRESENT
College Outcomes	Jennifer Moses	
Professional Development	Fernando Oleas	
Student Success	Crystal Kiekel	PRESENT

Faculty Coordinators		
Accreditation	Yvonne Grigg	PRESENT
Distance Education	Wendy Bass	
Guided Pathways (CTE)	Adrian Youhanna	
Guided Pathways (GE)	Angela Belden	
Guided Pathways (Student Services)	Liz Strother	
Outcomes	Jenny Moses	
Professional Development	Fernando Oleas	
Guests (Affiliation)	Guests (Name)	
Articulation	Cristina Rodriguez	
AFT	Brian Walsh	
The Round Up News	Ezzat Wanas	
The Round Up News	Joshua Manes	
The Round Up News	Jessica Vaughan	
The Round Up News	Maja Losinska	
ASO	Isha Pasricha	

**Academic Senate
September 10, 2018
2:15-3:45 p.m.
Building 600 (Faculty and Staff Center)
Minutes**

Item Number	Item
1	Call to Order President Bruzzese called the meeting to order at 2:15 p.m.
2	Public Commentary – 2 minutes maximum per public speaker on matters related to this meeting’s agenda None
3	Approval of the Agenda Pillado moved to approve the agenda. MSP (36-0-0)
4	<p>Approval of Consent Calendar enables members to vote on a block of items that are noncontroversial without a lot of time or discussion. Any item can be pulled from the consent agenda and discussed, if so desired.</p> <p>Pillado moved to approve the consent calendar. Levick requested item 4.e. to be moved to action item 8.a. MSP with item 4.e. moved (Pillado)(36-0-0)</p> <p>a. Appoint the Senate representatives to the 2018-19 tenure review committees (see attached)</p> <p>b. Reappoint the 2017-18 faculty panelists to the E-55 Committee for 2018-19 (see attached)</p> <p>c. Appoint Angela Belden as the ASCCC Guided Pathways liaison for Pierce Senate; this request came from the ASCCC Guided Pathways Task Force and the Pierce Guided Pathways Coordinators selected Angela</p> <p>d. Ratify the Academic Policy Committee charter update (see attached); refer to the Academic Policy Committee minutes from August 28, 2018</p> <p>e. Ratify the Student Success Committee recommendations to fund the following proposals (see attached); refer to the Student Success Committee minutes from August 15, 2018:</p> <ul style="list-style-type: none"> • Move English and math tutoring from the Equity fund to the Basic Skills fund: \$83,063 • Create an English AB705 support hub, in which English faculty and English tutors support students and work together to create a plan to implement AB 705: \$11,214
5	Approval of the Minutes from May 21, 2018 Pillado moved to approve the minutes. MSP (36-0-0)
6	College Administration Report – Larry Buckley

	None; not present.
7	<p>Associated Student Organization (ASO) Report – Isha Pasricha</p> <ul style="list-style-type: none"> • Thank you to the Senate for welcoming the students and making us feel that our voice matters. • Club rush this Wednesday, 9/12, and Thursday 9/13, on the Mall from 10 am – 2 pm. There are 30 clubs. • ASO is working on civil engagement – Started initiative called Pierce Votes – The LA county registration office will be on campus to register students to vote on Monday, 9/24. • Hosting Latino heritage celebration on 9/26. • Interviewing ASO students to be placed on committees. • Thank you to Student Success for all the work offering students tutoring; many students take advantage of the services.
8	<p>Action Items;</p> <p>a. Ratify the Student Success Committee recommendations to fund the following proposals (see attached); refer to the Student Success Committee minutes from August 15, 2018:</p> <ul style="list-style-type: none"> • Move English and math tutoring from the Equity fund to the Basic Skills fund: \$83,063 • Create an English AB705 support hub, in which English faculty and English tutors support students and work together to create a plan to implement AB 705: \$11,214 <p>Pillado moved to ratify the Student Success Committee recommendations. Levick requested clarification whether the funding (\$83,063) was being moved from Equity to Basic as new spending or alleviating shortfall. Kiekel clarified that there are no changes in the budget, merely shifting the funds from Equity to Basic Skills.</p> <p>MSP (Pillado)(36-0-0)</p>
9	<p>Unfinished Business; None;</p>
10	<p>New Business;</p> <p>a. Approve the 2016-17 BSI Final Expenditure Report (see attached)</p> <p>b. Approve the 2018-19 Senate Budget (see attached) Treasurer Belden provided a chart of the proposed budget and actuals for the past 3 years. There are no changes except for omitting \$3000 for conferences.</p>
11	<p>Academic Senate President Report – Anna Bruzzese</p> <p>a. <u>Welcome and introductions</u> Welcome to our guests, and all of our new and returning senators and representatives. I hope everyone had a great summer and a good beginning of the fall semester.</p>

- b. Results of the 2017-18 Senate Committee self-evaluation process – Amari Williams
- Overall the college committees did well. There were only a few committees with missing minutes.
 - The majority of the committees completed their 2017-2018 goals.
 - Every committee that had an ASO representative had ASO attendance.
 - The validation report will be uploaded to the Institutional Effectiveness website.
- c. 2018-19 Opening Day
Many thanks to everyone who participated or helped in any way in this year's Opening Day. An especially big thank you to our Faculty Professional Development Coordinator and the newly elected Professional Development Committee Chair, Fernando Oleas, who did a great job organizing this large event. A big thank you also goes to our Guided Pathways Coordinators, Angel Belden, Liz Strother and Adrian Youhanna for planning a fun and informative interactive Guided Pathways activity. Also, many thanks to our Professional Development Committee members for planning this event and volunteering to help make it a success. And, a big thank you to Michael Gend and his team for making things run smoothly at the Performing Arts Center.
- d. Parliamentary Procedure Training – Tuesday, 9/11/18 from 1 to 2 pm in the Pierce Online Conference Room
This training, offered by Shannon Krajewski, our College Professional Development Coordinator, is a great opportunity, especially for our new senators, as well as committee members since the Senate and its committees all follow parliamentary procedure.
- e. 2018 Pierce Leadership Retreat
On August 17, 2018 members of the Senate Exec attended this year's Pierce Leadership Retreat at Mission College, along with other faculty, administration and staff leaders from Pierce.
- f. Senate Leadership Appreciation Tea- Monday, 10/1/18 at 2:15 pm in the College Services Conference Room
This is the second annual Senate Leadership Appreciation Tea for Senate Committee chairs and faculty coordinators, hosted by the Senate Exec. The chairs and the coordinators have already been invited via email, and we hope to see everyone there.
- g. Pierce College delegate to the ASCCC Fall 2018 Plenary
This year I will be attending the Plenary as a South representative for the ASCCC which means that someone else can go to the plenaries as our delegate, and vote on behalf of Pierce. Our Senate bylaws specify that with the approval of the Senate, I may designate this person. I have put

	<p>this item on the Senate Exec agenda for our next meeting on 9/17 and will then bring it to the Senate on 9/24.</p> <p>h. <u>Senate, District and College Committee vacancies</u></p> <ul style="list-style-type: none"> • Educational Planning Committee (EPC) – one vacancy for a Senate representative • District Academic Senate – one vacancy for a Pierce representative • District Planning Committee – one vacancy for a Pierce representative <p>i. <u>Upcoming DAS event:</u></p> <ul style="list-style-type: none"> • District Discipline Day - Friday, September 21, 2018 from 8:30 am to 3:00 pm at LA City College, 3rd Floor Multi-Purpose Room <p>j. <u>Upcoming ASCCC events</u> (more information may be found at www.asccc.org):</p> <ul style="list-style-type: none"> • Academic Academy: Navigating New Frontiers: Faculty Leadership in Guided Pathways – September 14-15, 2018 at the Embassy Suites South SFO • Area C meeting – TBA • ASCCC Fall Plenary - November 1-3, 2018 at the Irvine Marriott Hotel <p>k. <u>Upcoming ASCCC awards</u> (more information can be found at www.asccc.org/awards):</p> <ul style="list-style-type: none"> • Exemplary Program Award (this year’s theme is “Environmental Responsibility”); deadline - November 5, 2018 • Hayward Award; deadline - December 17, 2018 • Diversity Award; deadline - February 11, 2019
12	<p>Academic Senate Treasurer Report – Angela Belden</p> <ul style="list-style-type: none"> • Will be sending out a notification to pay your dues. Before December 31, full-time faculty members will receive a \$10 discount and part-time faculty will receive a \$5 discount - \$40 from \$50 and \$20 from \$25, respectively. • Pierce College Budget Committee information: Annual budget reported at a \$4.8 million deficit; going through college’s reserves. • Justification for Procurements form will be required to make department purchases, even if items have already been approved; forms will be revised - please ensure that you review forms/requesting feedback (see Appendix A). • There is no money allocated for departments. • FON may not be affected.
13	<p>Faculty Accreditation Coordinator Report – Yvonne Grigg</p> <ul style="list-style-type: none"> • The next meeting is on Wednesday, 9/19. • 4 teams are set up. The teams are currently gathering evidence; in need of 15 team members; please join if you are interested and attend the meeting on Wednesday. • Report writing begins in January.
14	<p>Campus Reports</p>

Articulation Officer – Cristina Rodriguez

- Distributed list of approved and denied (**see Appendix B**).
- 63 courses submitted - 52 courses were approved, and 11 denied; most denied because they were practical and applied.
- Taking courses for IGETC and CSU General Education for review in December. Courses will not retroactive as they have been in the past and will be effective fall 2019.

Transfer Center Director – Sunday Salter

- Training for Faculty on how to help students with admissions personal statement (personal insight questions) – Friday, 9/14. Informational email sent out by Kalynda McClean.
- UCLA will be on campus to teach how to fill out applications this fall – sending out save-the-date.
- TAG deadline 9/30 for fall 2019 transfers: Six UCs participate except UCLA, UCSD, and UC Berkeley. Information on Transfer Center website
- UCLA CCCP program will be sending out peer mentors from UCLA. Mentors will be here next week.

Distance Education Coordinator – Wendy Bass

- New intro to Canvas training starting next Monday, you can sign up by clicking on the sign-up link that was sent via email last week.
- If there are any missing shells, please fill out the missing shell form located at our PierceOnLine faculty resource page
- Please check to make sure your SIS and canvas lists match - this is important as every once in awhile there is a mistake and students are in canvas but not SIS. Make sure to compare based on the students student ID number as some of them have changed their names in SIS so they don't match Canvas. If this is the case, have them send an email with a screenshot of their changed name in SIS to onlinehelp@piercecollege.edu and we can update their Canvas name.

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Academic Senate Committee Reports

Academic Policy (APC) – Michael Gend

APC has been busy:

- SCR training session – for chairs and program directors to use electronically.
- Working on getting Employee numbers so chairs can get permission numbers for employees who do not have access.
- Digital publishers - Cengage unlimited subscriptions now available.
- Chair release time and availability, ACRs to be filled out in case major meetings are missed
- Charter revision
- Monthly agenda item on enrollment – Amari Williams created a report for the department chairs which will provide preliminary census numbers. Will help for planning in future semesters.
- Discussion regarding enrollment on waitlists – some chairs put 5 additional on waitlist while others put 1/2 of the class cap. Will be addressed by Sheri Berger in DC.

- Leadership retreat – Consensus from chairs and program directors was that it was a missed opportunity. Will pursue conversation with Academic Affairs to make day more productive.
- Final exam schedule – Proposed changes, there will be a time block workgroup
- Enrollment resolution forms – permission numbers do not work as of today, 9/10. Provide forms to faculty for students who were not able to add the course with permission numbers. Course change form to be used for section transfers.

College Outcomes (COC) – Jennifer Moses

- Process for SLOs are centralized; SLO form can be updated on ELumen. Will be in effect this semester.
- Course reports – questions have been updated.
- Program assessments will be in Elumen.

Curriculum (CC) – Margarita Pillado

- Reviewed the locations of all Curriculum material on the Faculty and Staff website; forms are hyperlinked.
- The link to ECD is on the Curriculum website.
- The fall schedule of CORs is on. If you have not started on curriculum action, COR needs to be in Tech review before October 19th.

Distance Education and Instructional Technology (DEITC) – Clay Gediman

1. Guided Pathways

We were thinking of how DE fits into GP and came up with some issues that may pop up during the implantation. While we realize it's still in the planning stages, these are issues that we can be thinking about in the meantime.

- a. While DE courses use publisher materials, the online course should not be limited to just the publisher site.
- b. Coordinating ADA compliance with Canvas and faculty materials as well as online interaction.
- c. Professor and student contact and how students communicate.

2. DE Charter and Handbook

We will be reviewing and updating the DE charter and handbook to see what changes, if any, are needed.

3. Student access to technology

Other than current resources available (library computer lab, laptop checkout, Library Saturday hours) the committee thinks there may be other sources on campus (such as the ASO) to best deal with the student who are unable to have access to technology beyond that on an individual basis.

4. Online teaching
The committee is looking at how to keep online faculty updated and current on new technologies, best practices, and standards.
5. DEITC changed its meeting start time to 2:15 to better accommodate faculty meetings and class times.
6. There is an opening for one more AFT position.

Educational Planning (EPC) – Anna Bruzzese

EPC met on Wednesday, 9/5. We discussed a request from the Modern Languages Department for a fast track viability for ASL Interpreting Certificate of Achievement. Once the faculty submit their proposal to the Curriculum Committee, the Curriculum Committee Chair will forward it to the EPC for action at our next meeting. We also discussed how and when we are going to meet our committee goals for this academic year. Our next meeting is Wednesday, 10/3 at 1 p.m. in the Student Services Building Conference Room.

Events and Recognition (ERC) – Jennifer Moses

The committee hasn't met but we got a preview of the floor covering for the Opening Convocation. The cover belongs to the ASO to support the end of the year events or other ASO-approved events.

Faculty Position Priority (FPPC) – Ann Hennessey

- FPPC Fall 2018 meeting dates are the following and **each meeting will be held in Alder 1004a.**
- **Monday September 24** from 4-5:30 p.m.
- **Friday October 19th** from 10 a.m. until 4 p.m. (if it needs to be that late)
- **Monday November 26th** from 2:30 -4 p.m.
- The deadline for submission of applications will be Friday **September 28, 2018.**
- The current application is available on the FPPC website.
- Our current college President Larry Buckley and Amari Williams have each been invited to our first Fall 2018 FPPC meeting (and we hope they are available to come).

Professional Development (PDC) – Fernando Oleas

- The committee met on 9/4 – Oleas was elected chair of the committee.
- There was a discussion on the Faculty series; there will be 3 taking place on the last Fridays of the month.
- Discussion about the state awards; there will be continued discussion in the next meeting.
- Discussed bringing in quality speakers to inspire faculty and students (speakers such as Al Gore).
- Please complete the Opening Day survey – requesting your feedback.

Professional Ethics (PEC) – Cara Gillis

- The committee will be meeting on 9/17 at 4:15 pm

	<ul style="list-style-type: none"> • Agenda item for the first meeting: 60/20/20 funding structure for AB 705 • There are openings for 2 new apprentice members <p><u>Student Success (SSC) – Crystal Kiekel</u></p> <ul style="list-style-type: none"> • Funding transition: There are 3 funding sources for student success – Basic Skills, Student Equity, Student Success and support programs – all separate from college funding (Program 100 funds). • By fall 2019, all funds will be all one fund. There will be discussions on how to transition to new funding formula and distribution. • To be a part of the discussion, attend the next meeting on the 3rd Wednesday at 2:30 in the CSB. The committee will ensure that the Senate is a part of the process.
16	<p>Guided Pathways Ad-Hoc Committee Report – Angela Belden</p> <p>So far, the Guided Pathways Coordinators helped coordinate the following activities:</p> <ul style="list-style-type: none"> • Presentation at adjunct orientation • Presentation on Opening Day • Attending a conference with ASCCC • Asked for space on website <p>Will be focusing on four areas for improvement.</p>
17	<p>District Academic Senate (DAS) Report – Fernando Oleas or Margarita Pillado; None; next meeting is on 9/13 at Los Angeles Valley College</p>
18	<p>Announcements and Open Forum <i>Permits anyone to bring to the floor matters not currently on the agenda, though action may not be taken on any item. 2 minutes maximum per speaker.</i></p> <p>Jeff Favre – Please welcome the Round Up News new editor-in-chief - Josh Manes and managing editor Jessica Vaughan. If you have a story, let them know.</p> <p>Monika Ramirez Wee – Please attend our new art installation, Gazing into the Great Unknown, highlighting local artist Erika Lizee. Opening reception is this Thursday. Also, LA Weekly nominated Pierce as top 15 college art galleries in Southern California.</p> <p>Garineh Avakian – Performing Arts Department will be having free concerts on Thursdays from 1:00 -2:00 pm.</p>
19	<p>Adjournment – President Bruzzese adjourned the meeting at 3:45 p.m.</p>

Please note:

The documents that are marked “see attached” are sent to the Academic Senate members with the agenda. They are also posted on the Academic Senate webpage. Click on “Documents”, then on “Supplemental Meeting Documents”, then on the folder named after the relevant academic year, then on the folder named after the relevant semester, and finally, on the folder named after the relevant Senate meeting date.

In addition, the Notice Motion Proposals (NMPs) are also posted on the Academic Senate webpage. Click on "Documents", then on the "Resolutions" folder, then on the folder named after the relevant academic year, and finally, on the folder named after the relevant semester.

Academic Senate Meeting Dates

Fall 2018: 9/10, 9/24, 10/8, 10/22, 11/5, 11/19, 12/3

Spring 2019: 2/11, 2/25, 3/11, 3/25, 4/8, 4/22, 5/6, 5/20

Curriculum Areas

AREA 1 includes disciplines housed in the following departments:

Art and Architecture, Communication Studies, English, Media Arts, Library Sciences, Modern Languages, Performing Arts

AREA 2 includes disciplines housed in the following departments:

Child Development and Education; Kinesiology; History, Philosophy and Sociology; Political Sciences, Economics, Criminal Justice, Chicano Studies; Psychology and Addiction Studies

AREA 3 includes disciplines housed in the following departments:

Business Administration, Anthropological and Geographical Sciences, Chemistry, Life Sciences, Mathematics, Nursing, Physics and Planetary Sciences

AREA 4 includes disciplines housed in the following departments:

Agriculture and Natural Resources, Center for Academic Success, Computer Applications and Office Technologies, Counseling, Industrial Technology, Computer Science and Information Technology



Justification for Procurements (Over \$500.00)

Request Category: Labor []
Funding Source: Gen. Fund. []

Supplies []
CATE []

Equipment []
SFP/GRANT []

Requester: (ADMIN) Owner:

Extension:

Office/Department:

Unit that will use the resource:

Date:

Recommended by:

Dpt. Dean/Director :

Date :

Labor / Supplies

1) Please briefly define your request.

2) Describe specifically the purpose of your request. a.) What is the intent and benefit for the labor /supplies. b.) Is it essential in respect to the college's operation?

3) Will the requested equipment require a maintenance agreement and/or support personnel? If yes, what are the projected costs?

b. This equipment is: new replacement

Approval by : Division Vice President

Date

Approval by : College President or designee

Date

APPENDIX B

UC APPROVED COURSES – EFFECTIVE FALL 2018

Anml Sc 531	Poultry Production Laboratory
Anml Sc 602	Horse Husbandry
Anthro 141	Culture, Illness and Healing
Arc 161	Introduction to Computer-Aided Architectural Design
Arc 162	Computer-Aided Design and Drafting
Art 92	Introduction to Museum Studies
Art 503	Intermediate Design
Art 620	Illustration I
Comm 130	Introduction to Oral Interpretation of Literature
Co Info 533	Databases Using Access and SQL
Co Info 550	Introduction to Web Development Using Dreamweaver, HTML and CSS
Co Sci 532	Advanced Data Structures and Introduction to Databases
Co Sci 536	Introduction to Data Structures (review)
Co Sci 542	Discrete Structures for Computer Science
Co Sci 546	Advanced Computer Architecture and Organization (review)
DanceSt 802	Modern Dance II
DanceSt 803	Modern Dance III
DanceSt 821	Dance Staging and Methods II
DanceTq 122	Jazz Dance Techniques II
DanceTq 123	Jazz Dance Techniques III
DanceTq 124	Jazz Dance Techniques IV
DanceTq 142	Modern Dance Techniques II
DanceTq 143	Modern Dance Techniques III
DanceTq 144	Modern Dance Techniques IV
Dancetq 232	Conditioning for Dance II
Dancetq 233	Conditioning for Dance III
DanceTq 234	Conditioning for Dance IV
Dncespc 172	Hip-Hop Dance Techniques II
Dncespc 173	Hop-Hop Dance Techniques III
Dncespc 174	Hip-Hop Dance Techniques IV
Dncespc 443	Latin Social and Salsa Dance III
Dncespc 444	Latin Social and Salsa Dance IV
EGD TEK 101	Engineering Graphics
EGD TEK 210	3D Computer-Aided Design
Electrn 4B	Fundamentals of Electronics II
Electrn 6A	Fundamentals of Electronics I
Electrn 6B	Fundamentals of Electronics II
Geog 19, Meteor 4	Introductory Meteorology Laboratory
Japan 9	Japanese Civilization
Kin 301-1	Swimming Skills I
Kin 301-2	Swimming Skills II
Music 181	Applied Music I (review)
Music 182	Applied Music II (review)
Music 183	Applied Music III (review)
Music 184	Applied Music IV (review)
Photo 20	Beginning Photojournalism
Photo 102	Advanced Digital Photography

APPENDIX B

Plnt Sci 711	Introduction to Plant Science (review)
Spanish 6	Advanced Spanish II (review)
Stat 101	Statistics for the Social Sciences
Theater 230	Acting of the Camera (review)
Theater 273	Advanced Acting (Fall 2019 review for unit change)

DENIED COURSES

		DENIAL FEEDBACK
Arc 160	Computer Designers	Practical and applied
Arc 173	Architectural Drawing II	Practical and applied
Art 621	Illustration II	Practical and applied
Co Info 531	Managing Administering Windows Server	Practical and applied
Co Info 537	Scaling Internetworks	Practical and applied; no comparable Course
Electrn 4A	Fundamentals of Electronics I	Needs updated textbook
Electrn 8A	Electron Devices	Practical and applied; no comparable Course
Electrn 8B	Electron Devices	Practical and applied; no comparable Course
Plnt Sc 726	Agricultural Genetics	Lab manual is required
Plnt Sc 727	Plant Breeding Techniques	No comparable course
Plnt Sc 830	Sustainable Pest Control	Practical and applied; no comparable Course