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DATE: July 11, 2019

SUBJECT: Provost's Advisory Committee on Academic Scheduling
2018-19 Annual Report

The Provost's Advisory Committee on Academic Scheduling (PACAS) was established in the 2017-18 academic year to continue work on critical issues related to the academic and classroom scheduling processes. This committee has served as a continuance of the efforts directed by the Classroom Scheduling Taskforce; steered by the Guiding Principles for Classroom and Academic Scheduling.

Working closely with the Registrar's Office, PACAS has made substantive progress in the 2018-2019 academic year with the continued work by key subcommittees, leading charges on specific initiatives.

In summation, we present this Annual Report to you for your feedback and thoughts on our continued work, moving forward with these initiatives in the 2019-20 academic year.

Attachment: 2018-19 Annual Report

2018-2019

Academic Scheduling Annual Report

2018-2019 ACADEMIC YEAR

PROVOST'S ADVISORY COMMITTEE ON ACADEMIC SCHEDULING

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Lead up to Academic Year 2018-2019

Prior Year Accomplishments

The Provost's Advisory Committee on Academic Scheduling (PACAS) made notable accomplishments and established key subcommittees that further improved scheduling processes in Academic Year 2017-2018.

The scheduling grid that was implemented in Fall 2017 had an overall compliance rate of 81% in the inaugural semester. Compliance was dramatically increased the following semester, Spring 2018, to 97% after the establishment of the Academic Scheduling team in the Office of the Registrar under the leadership of a new Assistant Registrar – Academic Scheduling (Sabrina Miller).

Prime Time Scheduling (defined as the window between 9:00 AM – 3:00 PM) previously accounted for 60% of all scheduled sections. Despite steady growth in the volume of course offerings, the use of prime time was reduced by 6% in both Fall 2017 and Spring 2018 from the previous like terms. Trends showed that courses moving outside of prime time largely opted to utilize late afternoon options over 8:00 AM or 6:00 PM and later.

Subcommittees

- Exceptions (permanent subcommittee) – Chair: Leslie Sharp, VPGEFD
 - Established and approved policies and procedures for “off grid” scheduling exceptions, named [*Exceptions Request Policy*](#)
- Class/Academic Scheduling Technology – Chair: Paul Kohn, VPES
 - Identified two key software packages to improve registration and scheduling
 - Civitas College Scheduler (for student registration) which was funded, but has been held up in procurement
 - CourseLeaf Section Scheduler (CLSS), which was funded and procured
- Lab/Studio Course Scheduling – Chair: Carries Shepler, COS
 - Worked to define all non-lecture course types for institute wide use, considering implications on laboratory courses and the establishment of a new course types; *Studio*
- Anchor Courses – Chair: David White, COC
 - Worked to define the concept of anchor course/section and collaborated with departments across campus to identify potential courses for anchor status

Academic Year 2018-2019

Accomplishments

- Year two of the new scheduling grid began in Fall 2018 with careful monitoring of the academic schedule for compliance; Fall 2018 - 98% overall compliance and Spring 2019 - 97% overall compliance, a marked improvement from 2017-2018.
- Prime Time Scheduling (defined as the window between 9:00 AM and 3:00 PM)
 - Prime time use was slightly elevated from the Fall 2017 and Spring 2018 terms, but this is attributed to a change in the way data was calculated from academic year 2017-2018 to 2018-2019.
 - Newly, data excludes all courses that remained on the schedule as active but had zero enrollment which were inclusive in 2017-2018 reports. Even with this percent change, values are still lower than prior to the implementation of the new scheduling grid.
- Subcommittee Progress
 - Exceptions (permanent subcommittee) – Chair: Leslie Sharp, VPGEFD
 - Were on call to meet as needed to advise the RO on the *Exceptions Request Policy* or to review appeal(s). There were no appeals in 2018-2019.
 - Class/Academic Scheduling Technology – Chair: Paul Kohn, VPES
 - College Scheduler was funded, but is still held up in procurement.
 - CourseLeaf Section Scheduler (CLSS) was funded and procured, an implementation team was established, and implementation is in progress.
 - Lab/Studio Course Scheduling – Chair: Carries Shepler, COS
 - Finalized institute definitions and presented recommendations to the full committee for review and vote; passed with full support.
 - These subsequently went on for review and vote at the Undergraduate and Graduate Institute Curriculum Committees, the Student Rules & Regulations Committee, and the Academic Senate; all passed with full support.
 - The upcoming catalog will outline the additions and changes approved.
 - Anchor Courses – Chair: David White, COC
 - Finalized and presented recommendations to the RO for a feasibility review.
 - The feasibility review uncovered several areas of concern including recommendations to anchor courses with catalog misalignments, special topics offerings, and courses being scheduled off-grid. Further, upcoming, large-scale renovations would take a significant percentage of large capacity lecture spaces offline for more than one year.
 - After discussion with the full committee, the Anchor Course concept was put on hold pending completion of:
 - Planned, large-scale renovations of lecture halls
 - Cleanup of identified catalog misalignments
 - Review of the scheduling grid for changes/recommend updates
 - Implementation of a new scheduling grid or essential changes

Key Data Points

- Fall 2018
 - 4,034 courses and labs scheduled and placed in academic spaces on campus
 - 80% undergraduate, 20% graduate
 - 98% overall compliance with the scheduling grid; 7% approved on an off-grid exception, 7% off-grid in departmental lab space, and 84% in full compliance with the new protocol

- Spring 2019
 - 3,680 courses and labs scheduled and placed in academic spaces on campus
 - 81% undergraduate, 19% graduate
 - 97% overall compliance with the scheduling grid, 7% approved on an off-grid exception, 7% off-grid in departmental lab space, and 83% in full compliance with the new protocol

Plan for Academic Year 2019-2020

Subcommittees

- Exceptions (permanent subcommittee) – Chair: Leslie Sharp, VPGEFD
 - Meet as needed to advise the RO on the *Exceptions Request Policy* or to review appeal(s)
- Class/Academic Scheduling Technology – Chair: Paul Kohn, VPES
 - Work with procurement to finalize the purchase of College Scheduler
 - Complete implementation of CourseLeaf Section Scheduler (CLSS)
 - Continue to explore options to replace EMS and take steps to secure funding
- Lab/Studio Course Scheduling – Chair: Carries Shepler, COS
 - Be available to advise the RO on guiding principles for the implementation of new concepts including Studio, Mixed Laboratory, Recitation, and Common Exams
 - Finish garnering feedback on the current scheduling grid and identified pinch points
 - Finalize recommendations for changes to the Fall/Spring scheduling grid to address identified pinch points and correct known issues (including the Friday Flexible Block)
 - Consider how recommendations in Fall/Spring should carry forward to Summer and work with the RO Academic Scheduling team and the Director of Summer Session to propose updates to the Summer scheduling grid
- Anchor Courses – Chair: David White, COC
 - Until further notice, there are no action items for this subcommittee

Summer Scheduling Grid

- Work on optimizing the summer scheduling grid; a collaboration of the RO Academic Scheduling team, the Director of Summer Session (De Morris Walker), and the Lab/Studio Scheduling subcommittee to ensure options for current and new concepts are added and well documented for all credit values and schedule types
- Work to add appropriate instructional breaks to summer meeting patterns per the new unit of credit definition

Friday Flexible Block

- Add options for the new Recitation schedule type to this block to boost utilization
- The Lab/Studio Course Scheduling subcommittee will consider appropriate changes in conjunction with recommendations for changes to the Fall/Spring scheduling grid

Non-Academic Scheduling Process

- Review non-academic scheduling processes; may need to secure funding for a replacement for EMS (25Live has been reviewed and is a very strong possibility). The Class/Academic Scheduling Technology subcommittee will oversee these recommendations.

Appendix

2018-2019 Committee Membership and Meeting Dates

2018-19 Committee Member and Title	Affiliation/Role
Joe Hughes, Professor, Electrical and Computer Engineering	Co-Chair
Steven Girardot, Associate Vice Provost, Undergraduate Education	Co-Chair (and VPUE rep)*
Victor Breedveld – Associate Chair, CHBE	COE Faculty Rep
Monifa Skelton-Wells – Academic Program Manager, Mechanical Engineering	COE Staff Rep
Carrie Shepler – Senior Academic Professional, School of Chemistry and Biochemistry	COS Faculty Rep
Ashley Edwards – Academic Program Manager, College of Sciences	COS Staff Rep
Russell Gentry – Associate Professor, College of Design	COD Faculty Rep
Robin Tucker – Academic Advising Manager, College of Design	COD Staff Rep
Sri Narasimhan – Co-Director, Business Analytics Center, Scheller College of Business	SCB Faculty Rep
Valerie Mastrangelo – Undergraduate Programs Manager, Scheller College of Business	SCB Staff Rep
David White – Senior Academic Professional, College of Computing	COC Faculty Rep
Kemonta Gray – Academic Program Coordinator, College of Computing	COC Staff Rep
Paul Baker – Principal Research Scientist, Ivan Allen College	IAC Faculty Rep
Ladonna Bowen-Chavers – Academic Advisor, Ivan Allen College	IAC Staff Rep
Tanya Krawiec, Academic Program Manager, GT Professional Education	GTPE Rep
Debbi Greene, Assistant Director, Capital Planning and Space Management	CPSM Rep*
Paul Kohn, Vice Provost for Enrollment Services	VPES Rep*
Leslie Sharp, Associate Vice Provost, Graduate Education and Faculty Development	VPGEFD Rep*
Reta Pikowsky, Registrar	Registrar Rep*
Sabrina Miller, Assistant Registrar for Academic Scheduling	Secretary*

* - Non-voting standing (ex officio) member

2018-19 Meeting Dates

Thursday, October 22, 2018

Monday, February 28, 2019

Fall 2018 Banner Action Items Summary

Variable	Raw Data	Percentage
Total Courses and Labs	4034	100%
Undergraduate ¹	3218	80%
Graduate ²	816	20%
8 AM and Earlier Courses³	284	7%
Undergraduate	230	81%
Graduate	54	19%
Prime Time Courses⁴	2296	57%
Undergraduate	1827	80%
Graduate	469	20%
Late Afternoon Courses⁵	1166	29%
Undergraduate	937	80%
Graduate	229	20%
6 PM and Later Courses⁶	288	7%
Undergraduate	224	78%
Graduate	64	22%
Courses Outside of Prime Time	1738	43%
Undergraduate	1391	80%
Graduate	347	20%
Friday Courses⁷	269	7%
Undergraduate	202	75%
Graduate	67	25%
Non-Compliant	94	2%
Compliant (Exception)	284	7%
Compliant (Labs)	287	7%
Compliant (On Grid)	3369	84%
Compliant (Combined)	3940	98%

Table 1

¹ Undergraduate Courses are Courses 4000 level and below

² Graduate Courses are 6000 level and above

³ 8 AM and Earlier Courses include all courses beginning before 9 AM

⁴ Prime Time Courses include all courses between 9 AM and 3 PM

⁵ Late Afternoon Courses include all courses between 3 PM and 6 PM

⁶ 6 PM and Later Courses includes all courses beginning at or after 6 PM

⁷ Friday Courses include all courses taking place on only Friday

Count of Friday Scheduled Sections by Subject Code Including Labs

Subject Code	Total	% Total
AE	5	1.86%
APPH	5	1.86%
ARCH	6	2.23%
BC	2	0.74%
BIOL	8	2.97%
BMED	13	4.83%
CEE	16	5.95%
CETL	2	0.74%
CHBE	5	1.86%
CHEM	11	4.09%
CP	7	2.60%
CS	4	1.49%
CSE	1	0.37%
CX	1	0.37%
EAS	5	1.86%
ECE	7	2.60%
GT	25	9.29%
ID	4	1.49%
ISYE	4	1.49%
LMC	5	1.86%
MATH	60	22.30%
ME	15	5.58%
MGT	4	1.49%
MSE	2	0.74%
NRE	1	0.37%
PHIL	6	2.23%
PHYS	1	0.37%
PSYC	2	0.74%
PUBP	3	1.12%
RUSS	2	0.74%
VIP	37	13.75%
Grand Total	269	100%

Table 2

This Friday section count *includes* labs. This is to account for a grid usage view of Friday only use with the current compliance accounting for scheduled spaces. This table represents space usage and scheduled meeting times by discipline with regards to compliance.

Count of Friday Scheduled Lectures by Subject Code Excluding Labs

Subject Code	Total	% Total
AE	1	0.53%
APPH	5	2.66%
ARCH	4	2.13%
BIOL	3	1.60%
BMED	12	6.38%
CEE	2	1.06%
CETL	2	1.06%
CHBE	1	0.53%
CHEM	2	1.06%
CP	3	1.60%
CS	2	1.06%
CSE	1	0.53%
CX	1	0.53%
EAS	2	1.06%
ECE	4	2.13%
GT	25	13.30%
ISYE	3	1.60%
LMC	4	2.13%
MATH	60	31.91%
ME	1	0.53%
MSE	1	0.53%
PHIL	6	3.19%
PHYS	1	0.53%
PSYC	1	0.53%
PUBP	2	1.06%
RUSS	2	1.06%
VIP	37	19.68%
Grand Total	188	100%

Table 3

This Friday section count *excludes* labs and is a representation of the courses on Friday only with schedule types Lecture, Lecture/Supervised Lab, and Seminar. Courses labeled Lecture/Supervised lab largely contained periods which did not reflect common lab times meriting their inclusion.

Undergraduate Courses

	Raw Data	% Undergraduate Courses
Total Number of Undergraduate Courses	3218	80% ⁸
Total Number of 8 AM and Earlier Courses	230	7.15%
Total Number of Prime Time Courses	1827	56.77%
Total Number of Late Afternoon Courses	937	29.12%
Total Number of 6 PM and Later Courses	224	6.96%
Total Number of Non-Prime Time Courses	1391	43.23%
Total Number of Friday Courses	202	6.28%
Total Number of Non-Compliant Courses	91	2.86%
Total Number of Compliant (Exception) Courses	166	5.16%
Total Number of Compliant (Labs) Courses	276	8.58%
Total Number of Compliant (On Grid) Courses	2685	83.44%
Total Number of Compliant (Combined) Courses	3127	97.17%

Table 4

⁸ This percentage is derived from the percentage of total scheduled courses while all other percentages reflect values derived from the Total Number of Courses and Labs as represented in Table 1

Graduate Courses

	Raw Data	% Graduate Courses
Total Number of Graduate Courses	816	20% ⁸
Total Number of 8 AM and Earlier Courses	54	6.62%
Total Number of Prime Time Courses	469	57.48%
Total Number of Late Afternoon Courses	229	28.06%
Total Number of 6 PM and Later Courses	64	8.21%
Total Number of Non-Prime Time Courses	347	42.52%
Total Number of Friday Courses	67	8.21%
Total Number of Non-Compliant Courses	3	0.37%
Total Number of Compliant (Exception) Courses	118	14.46%
Total Number of Compliant (Labs) Courses	11	1.35%
Total Number of Compliant (On Grid) Courses	684	83.82%
Total Number of Compliant (Combined) Courses	813	99.63%

Table 5

Off Grid Scheduled Sections by Subject Code

Subject Code	Total	% Total
AE	23	3.46%
APPH	9	1.35%
ARCH	50	7.52%
BC	5	0.75%
BIOL	44	6.62%
BMED	14	2.11%
CEE	4	0.60%
CETL	7	1.05%
CHEM	98	14.74%
CP	12	1.80%
CS	92	13.83%
EAS	5	0.75%
ECE	29	4.36%
ECON	2	0.30%
GT	6	0.90%
HTS	5	0.75%
ID	23	3.46%
INTA	9	1.35%
ISYE	3	0.45%
LMC	8	1.20%
ME	26	3.91%
MGT	30	4.51%
MP	5	0.75%
MSL	4	0.60%
MUSI	7	1.05%
NEUR	5	0.75%
NRE	1	0.15%
PERS	1	0.15%
PHIL	13	1.95%
PHYS	98	14.74%
PSYC	8	1.20%
PUBP	14	2.11%
SPAN	1	0.15%
VIP	4	0.60%
Grand Total	665⁹	100%

Table 6

⁹ This total reflects all courses out of compliance with scheduling protocol including those with approved exceptions to illustrate on grid compliance versus policy compliance. The Exceptions Breakdown section (Table 8) will illustrate on grid compliance versus policy compliance.

Non-Compliant Breakdown

Subject Code	Total	% of Total
CS	88	93.62%
ECE	1	1.06%
MSE	3	3.19%
MUSI	2	2.13%
Grand Total	94	100%

Table 7

Labs

Subject Code	Total	% of Total
AE	21	7.32%
APPH	4	1.39%
BIOL	44	15.33%
CHEM	92	32.06%
CP	4	1.39%
EAS	5	1.74%
ECE	2	0.70%
GT	1	0.35%
ID	5	1.74%
ME	20	6.97%
MUSI	1	0.35%
NEUR	4	1.39%
PHYS	83	28.92%
PSYC	1	0.35%
Grand Total	287	100%

Table 8

Exceptions Breakdown

Subject Code	Total	% of Exceptions Submitted
AE	2	0.70%
APPH	5	1.76%
ARCH	50	17.61%
BC	5	1.76%
BMED	14	4.93%
CEE	4	1.41%
CETL	7	2.46%
CHEM	6	2.11%
CP	8	2.82%
CS	4	1.41%
ECE	26	9.15%
ECON	2	0.70%
GT	5	1.76%
HTS	5	1.76%
ID	18	6.34%
INTA	9	3.17%
ISYE	3	1.06%
LMC	8	2.82%
ME	6	2.11%
MGT	27	9.51%
MP	5	1.76%
MSL	4	1.41%
MUSI	4	1.41%
NURE	1	0.35%
NRE	1	0.35%
PERS	1	0.35%
PHIL	13	4.58%
PHYS	15	5.29%
PSYC	7	2.46%
PUBP	14	4.93%
SPAN	1	0.35%
VIP	4	1.41%
Grand Total	284	100%

Table 9

Spring 2019 Data Reports

Spring 2019 Banner Action Items Summary

Variable	Raw Data	Percentage
Total Courses and Labs	3680	100%
Undergraduate ¹	2971	81%
Graduate ²	709	19%
8 AM and Earlier Courses³	222	6%
Undergraduate	196	88%
Graduate	26	12%
Prime Time Courses⁴	2110	58%
Undergraduate	1731	82%
Graduate	379	18%
Late Afternoon Courses⁵	1046	28%
Undergraduate	815	78%
Graduate	231	22%
6 PM and Later Courses⁶	302	8%
Undergraduate	229	76%
Graduate	73	24%
Courses Outside of Prime Time	1570	42%
Undergraduate	1240	79%
Graduate	330	21%
Friday Courses⁷	209	6%
Undergraduate	177	85%
Graduate	32	15%
Non-Compliant	104	3%
Compliant (Exception)	248	7%
Compliant (Labs)	259	7%
Compliant (On Grid)	3069	83%
Compliant (Combined)	3576	97%

Table 1

¹ Undergraduate Courses are Courses 4000 level and below

² Graduate Courses are 6000 level and above

³ 8 AM and Earlier Courses include all courses beginning before 9 AM

⁴ Prime Time Courses include all courses between 9 AM and 3 PM

⁵ Late Afternoon Courses include all courses between 3 PM and 6 PM

⁶ 6 PM and Later Courses includes all courses beginning at or after 6 PM

⁷ Friday Courses include all courses taking place on only Friday

Count of Friday Scheduled Sections by Subject Code Including Labs

Subject Code	Total	% Total
AE	4	1.91%
APPH	2	0.95%
ARCH	2	0.95%
BIOL	6	2.87%
BMED	15	7.17%
CEE	10	4.78%
CHBE	4	1.91%
CHEM	9	4.30%
CP	6	2.87%
CS	2	0.95%
EAS	7	3.34%
ECE	6	2.87%
FREN	1	0.47%
GT	1	0.47%
ID	4	1.91%
ISYE	5	2.39%
KOR	1	0.47%
LMC	9	4.30%
MATH	41	19.61%
ME	10	4.78%
MGT	3	1.43%
MSE	4	1.91%
MUSI	2	0.95%
NRE	3	1.43%
PERS	2	0.95%
PHIL	12	5.74%
PHYS	4	1.91%
PSYC	2	0.95%
PUBP	4	1.91%
RUSS	1	0.47%
VIP	27	12.91%
Grand Total	209	100%

Table 2

This Friday section count *includes* labs. This is to account for a grid usage view of Friday only use with the current compliance accounting for scheduled spaces. This table represents space usage and scheduled meeting times by discipline with regards to compliance.

Count of Friday Scheduled Lectures by Subject Code Excluding Labs

Subject Code	Total	% Total
AE	1	0.52%
APPH	2	1.04%
ARCH	2	1.04%
BIOL	6	3.12%
BMED	15	7.81%
CEE	10	5.20%
CHBE	4	2.08%
CHEM	4	2.08%
CP	5	2.60%
CS	2	1.04%
EAS	7	3.64%
ECE	6	3.12%
FREN	1	0.52%
ID	4	2.08%
ISYE	5	2.60%
KOR	1	0.52%
LMC	9	4.68%
MATH	41	21.35%
ME	6	3.12%
MGT	3	1.56%
MSE	4	2.08%
MUSI	1	0.52%
NRE	3	1.56%
PERS	2	1.04%
PHIL	12	6.25%
PHYS	3	1.56%
PSYC	1	0.52%
PUBP	4	2.08%
RUSS	1	0.52%
VIP	27	14.06%
Grand Total	192	100%

Table 3

This Friday section count *excludes* labs and is a representation of the courses on Friday only with schedule types Lecture, Lecture/Supervised Lab, and Seminar. Courses labeled Lecture/Supervised lab largely contained periods which did not reflect common lab times meriting their inclusion.

Undergraduate Courses

	Raw Data	% Undergraduate Courses
Total Number of Undergraduate Courses	2971	81% ⁸
Total Number of 8 AM and Earlier Courses	196	6.59%
Total Number of Prime Time Courses	1731	58.26%
Total Number of Late Afternoon Courses	815	27.43%
Total Number of 6 PM and Later Courses	229	7.70%
Total Number of Non-Prime Time Courses	1240	41.73%
Total Number of Friday Courses	177	5.95%
Total Number of Non-Compliant Courses	104	3.51%
Total Number of Compliant (Exception) Courses	165	5.55%
Total Number of Compliant (Labs) Courses	253	8.51%
Total Number of Compliant (On Grid) Courses	2449	82.43%
Total Number of Compliant (Combined) Courses	2867	96.49%

Table 4

⁸ This percentage is derived from the percentage of total scheduled courses while all other percentages reflect values derived from the Total Number of Courses and Labs as represented in Table 1

Graduate Courses

	Raw Data	% Graduate Courses
Total Number of Graduate Courses	709	19% ⁸
Total Number of 8 AM and Earlier Courses	26	3.66%
Total Number of Prime Time Courses	379	53.45%
Total Number of Late Afternoon Courses	231	32.58%
Total Number of 6 PM and Later Courses	73	10.29%
Total Number of Non-Prime Time Courses	330	46.54%
Total Number of Friday Courses	32	4.51%
Total Number of Non-Compliant Courses	0	0.00%
Total Number of Compliant (Exception) Courses	83	11.70%
Total Number of Compliant (Labs) Courses	6	0.84%
Total Number of Compliant (On Grid) Courses	620	87.44%
Total Number of Compliant (Combined) Courses	709	100.00%

Table 5

Off Grid Scheduled Sections by Subject Code

Subject Code	Total	% Total
AE	22	3.60%
APPH	6	0.98%
ARCH	31	5.07%
BIOL	32	5.23%
BMED	18	2.94%
CEE	9	1.47%
CETL	8	1.30%
CHBE	8	1.30%
CHEM	65	10.63%
CHIN	1	0.16%
CP	8	1.30%
CS	99	16.20%
CSE	1	0.16%
EAS	4	0.65%
ECE	34	5.56%
GT	3	0.49%
HTS	2	0.32%
IAC	1	0.16%
ID	22	3.60%
INTA	17	2.78%
ISYE	7	1.14%
LMC	8	1.30%
MATH	4	0.65%
ME	26	4.25%
MGT	19	3.10%
MP	3	0.49%
MSE	1	0.16%
MSL	4	0.65%
MUSI	8	1.30%
NEUR	4	0.65%
NRE	3	0.49%
NS	2	0.32%
PERS	2	0.32%
PHYS	99	16.20%
PSYC	11	1.80%
PUBP	5	0.81%
SPAN	2	0.32%
VIP	12	1.96%
Grand Total	611⁹	100%

Table 6

⁹ This total reflects all courses out of compliance with scheduling protocol including those with approved exceptions to illustrate on grid compliance versus policy compliance. The Exceptions Breakdown section (Table 8) will illustrate on grid compliance versus policy compliance.

Non-Compliant Breakdown

Subject Code	Total	% of Total
CP	1	0.96%
CS	96	92.30%
ID	3	2.88%
ISYE	1	0.96%
MGT	1	0.96%
PHYS	1	0.96%
VIP	1	0.96%
Grand Total	104	100%

Table 6

Labs

Subject Code	Total	% of Total
AE	19	7.33%
APPH	3	1.16%
BIOL	28	10.81%
BMED	2	0.77%
CEE	3	1.16%
CHEM	63	24.32%
CP	4	1.54%
EAS	2	0.77%
ECE	6	2.32%
GT	1	0.39%
ID	6	2.32%
ME	21	8.12%
MP	1	0.39%
MSE	1	0.39%
MUSI	2	0.77%
NEUR	4	1.54%
NS	2	0.77%
PHYS	90	34.75%
PSYC	1	0.39%
Grand Total	259	100%

Table 8

Exceptions Breakdown

Subject Code	Total	% of Exceptions Submitted
AE	3	1.20%
APPH	3	1.20%
ARCH	31	12.50%
BIOL	4	1.61%
BMED	16	6.45%
CEE	6	2.41%
CETL	8	3.22%
CHBE	8	3.22%
CHEM	2	0.80%
CHIN	1	0.40%
CP	3	1.20%
CS	3	1.20%
CSE	1	0.40%
EAS	2	0.80%
ECE	28	11.29%
GT	2	0.80%
HTS	2	0.80%
IAC	1	0.40%
ID	13	5.24%
INTA	17	6.85%
ISYE	6	2.41%
LMC	8	3.22%
MATH	4	1.61%
ME	5	2.01%
MGT	18	7.25%
MP	2	0.80%
MSL	4	1.61%
MUSI	6	2.41%
NRE	3	1.20%
PERS	2	0.80%
PHYS	8	3.22%
PSYC	10	4.03%
PUBP	5	2.01%
SPAN	2	0.80%
VIP	11	4.43%
Grand Total	248	100%

Table 9

Multiple Year Analysis

Fall 2017 to 2018 Percent Change

Variable	201708 Raw Data	201708 Percentage	201808 Raw Data	201808 Percentage	% Change
Total Courses and Labs	4106	100%	4034	100%	0
Undergraduate ¹	3317	81%	3218	80%	-1%
Graduate ²	789	19%	816	20%	+1%
8 AM and Earlier Courses³	265	6%	284	7%	+1%
Undergraduate	214	81%	230	81%	0
Graduate	51	19%	54	19%	0
Prime Time Courses⁴	2131	52%	2296	57%	+5%
Undergraduate	1727	81%	1827	80%	-1%
Graduate	404	19%	469	20%	+1%
Late Afternoon Courses⁵	1375	33%	1166	29%	-4%
Undergraduate	1147	83%	937	80%	-3%
Graduate	228	17%	229	20%	+3%
6 PM and Later Courses⁶	345	8%	288	7%	-1%
Undergraduate	243	70%	224	78%	+8%
Graduate	102	30%	64	22%	-8%
Courses Outside of Prime Time	1975	48%	1738	43%	-5%
Undergraduate	1590	81%	1391	80%	-1%
Graduate	385	19%	347	20%	+1%
Friday Courses⁷	467	11%	269	7%	-4%
Undergraduate	408	87%	202	75%	-12%
Graduate	59	13%	67	25%	+12%
Non-Compliant	772	19%	94	2%	-17%
Compliant (Exception)	181	4%	284	7%	+3%
Compliant (Labs)	201	5%	287	7%	+2%
Compliant (On Grid)	2952	72%	3369	84%	+12%
Compliant (Combined)	3334	81%	3940	98%	+17%

¹ Undergraduate Courses are Courses 4000 level and below

² Graduate Courses are 6000 level and above

³ 8 AM and Earlier Courses include all courses beginning before 9 AM

⁴ Prime Time Courses include all courses between 9 AM and 3 PM

⁵ Late Afternoon Courses include all courses between 3 PM and 6 PM

⁶ 6 PM and Later Courses includes all courses beginning at or after 6 PM

⁷ Friday Courses include all courses taking place on only Friday

Spring 2018 to 2019 Percent Change

Variable	201802 Raw Data	201802 Percentage	201902 Raw Data	201902 Percentage	% Change
Total Courses and Labs	3994	100%	3680	100%	0
Undergraduate ⁸	3302	83%	2971	81%	- 2%
Graduate ⁹	692	17%	709	19%	+ 2%
8 AM and Earlier Courses¹⁰	226	6%	222	6%	0
Undergraduate	193	85%	196	88%	+ 3%
Graduate	33	15%	26	12%	- 3%
Prime Time Courses¹¹	2101	53%	2110	58%	+ 5%
Undergraduate	1731	82%	1731	82%	0
Graduate	370	18%	379	18%	0
Late Afternoon Courses¹²	1378	34%	1046	28%	- 6%
Undergraduate	1165	84%	815	78%	- 6%
Graduate	213	16%	231	22%	+ 6%
6 PM and Later Courses¹³	289	7%	302	8%	+ 1%
Undergraduate	213	74%	229	76%	+ 2%
Graduate	76	26%	73	24%	- 2%
Courses Outside of Prime Time	1893	47%	1570	42%	- 5%
Undergraduate	1571	83%	1240	79%	- 4%
Graduate	322	17%	330	21%	+ 4%
Friday Courses¹⁴	536	14%	209	6%	- 8%
Undergraduate	504	94%	177	85%	- 11%
Graduate	32	6%	32	15%	+ 8%
Non-Compliant	128	3%	104	3%	0
Compliant (Exception)	246	6%	248	7%	+ 1%
Compliant (Labs)	238	6%	259	7%	+ 1%
Compliant (On Grid)	3382	85%	3069	83%	- 2%
Compliant (Combined)	3866	97%	3576	97%	0

⁸ Undergraduate Courses are Courses 4000 level and below

⁹ Graduate Courses are 6000 level and above

¹⁰ 8 AM and Earlier Courses include all courses beginning before 9 AM

¹¹ Prime Time Courses include all courses between 9 AM and 3 PM

¹² Late Afternoon Courses include all courses between 3 PM and 6 PM

¹³ 6 PM and Later Courses includes all courses beginning at or after 6 PM

¹⁴ Friday Courses include all courses taking place on only Friday