



## Academic Requirements

Marshall Malino, 976615875

Processed on 10/06/2018

Career / Program (Gen Ed) / Major / Option	Requirement Term
Undergraduate Career	Fall 2016
Science Program	Fall 2016
Data Sciences (BS) Major	Spring 2018
Stat Mdlng Dt Scn Option	Spring 2018

Campus: University Park

Academic Level: 5th Sem

Cumulative GPA: 3.210

Advisor: Holt, Katherine

Advisor: Thurman-Irons, Rebecca

### \*\*\*\*\*DEGREE AUDIT NOTES\*\*\*\*\*

\*\*TUTORIAL: To familiarize yourself with the new degree audit functionality, please review the "Interpreting a Degree Audit" tutorial, found on the student Help page: <http://lionpathsupport.psu.edu/help/undergraduateparent/>, as well as in the LionPATH Online Library for Faculty & Staff.\*\*

\*\*NOTE: A considerable portion of course substitutions and exceptions that were entered in the former audit system will need to be re-entered into LionPATH. Staff entering college exceptions are actively working through student audits to review and re-apply, where applicable, substitutions and exceptions that were previously approved.\*\*

\*\*HAVE QUESTIONS/FOUND AN ISSUE? The following reporting lines of communication should be followed:

- if a student has a question, they should communicate with their academic advisor;
- if an academic advisor or other faculty/staff member has a question, they should communicate with their college's degree audit contact. This contact is often a campus registrar or college records coordinator, and is the person in the college that has been coordinating the audit validation process with LionPATH; and
- the college degree audit contact should address the question/report the issue to their designated contact in the Office of the University Registrar who will work towards a resolution.\*\*

### This report is an unofficial working copy of a student's progress.

Graduation certification of degree requirements is subject to the approval of the student's college dean. Questions about the report should be directed to the student's academic adviser or college dean.

#### Eberly College of Science Majors

This report includes requirements for the following majors:

#### **Data Science Major, Statistical Modeling Data Sciences Option (DTSCS\_BS-SMDDS)**

Data Science Major, Statistical Modeling Data Sciences Option (DTSCS\_BS-SMDDS)

### Entrance Requirements for the Eberly College of Science

Courses enrolled in a future term will not display in this entrance requirements section until the start of the future term.

#### **29.1 units minimum**

**Satisfied**

- **Units:** 29.10 required, 72.00 used

#### **2.0 cumulative GPA minimum**

**Satisfied**

- **GPA:** 2.000 required, 3.210 completed

#### **MATH 140-C or higher required**

**Satisfied**

· **Units:** 4.00 required, 4.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	MATH	140	Calc Anly Geom I	B	4.00	EN

#### High School Science Courses or Substitution

Complete 3 high school science courses, or complete an approved substitution. Courses with the Natural Science (GN) attribute fulfill this substitution.

**Satisfied:**

#### Additional Entrance Requirements for DTSCS BS

**MATH 141- C or higher required**

**Satisfied**

· **Units:** 4.00 required, 4.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	MATH	141	Calc Anly Geom II	C+	4.00	EN

**CMPSC 121- C or higher required**

**Satisfied**

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	CMPSC	121	Intro Prgmg Tech	B	3.00	EN

**CMPSC 122- C or higher required**

**Satisfied .**

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	CMPSC	122	Intermed Progrmg	C+	3.00	EN

**STAT 200- C or higher required**

**Satisfied .**

· **Units:** 4.00 required, 4.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	STAT	200	Elem Statistics	B	4.00	EN

**IST 210- C or higher required**

**Satisfied .**

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	IST	210	Org Data	B-	3.00	EN

### In Progress Courses

Degrees are not complete until all requirements are satisfied.

#### In Progress Courses

##### In Progress Courses

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2018	COMM	100	Mass Media and Soc		3.00	IP
FA 2018	DS	310	Mach Learn&Data An		3.00	IP
FA 2018	DS	330	Visual Analytics		3.00	IP
FA 2018	EARTH	100	Environment Earth		3.00	IP
FA 2018	MATH	415	Intro Math Stat		3.00	IP

### Withdrawn, Unsatisfactory, Repeated, & Excluded Academic Renewal Courses

**Withdrawn and Unsatisfactorily Completed Courses**

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	MATH	220	Matrices	LD	2.00	EN

**World Language Admission Requirement**

NOTE: Additional Language Proficiency Required by some Majors

**Admissions Foreign Language Satisfied**

**Satisfied** No additional foreign language required to satisfy admissions requirements. Additional foreign language may be required by the major.

**First-Year Seminar**

First-Year Seminar

**First-Year Seminar Course**

**Satisfied** Complete 1 unit minimum in First-Year Seminar

· **Units:** 1.00 required, 1.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	EE	9	E E 1st-Yr Smnr	B+	1.00	EN

**Writing Across the Curriculum**

Students are required to complete 3 units of writing-intensive coursework offered within their major(s) or college(s) of enrollment

**Writing Across the Curriculum - College of Science**

**Satisfied** Courses with the Writing Across the Curriculum attribute offered by the college satisfy this requirement

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2017	MATH	311W	Discrete Math	B+	3.00	EN

**United States and International Cultures (US/IL)**

Courses with US or IL attributes satisfy these requirements

**United States and International Cultures (US/IL)**

Courses with US and/or IL attributes satisfy these requirements

**United States Cultures (US)**

**Satisfied** Complete 3 US units

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	ENGL	15A	Rhetoric and Comp	B	3.00	EN

**International Cultures (IL)**

**Not Satisfied** Complete 3 IL units

· **Units:** 3.00 required, 0.00 used, 3.00 needed

**Minimum 2.00 Cumulative Grade Point Average Required for Graduation**

Senate Policy 82-40

**Cumulative Grade Point Average**

**Satisfied** Minimum 2.0 Required

· **GPA:** 2.000 required, 3.210 completed

**Residency Requirements**

Senate Policy 83-80

**At least 36 of the last 60 units must be earned at Penn State****Satisfied** Senate Policy 83-80.1· **Units:** 36.00 required, 36.00 used**At least 60 units must be earned in the last five years****Satisfied** Senate Policy 83-80.2· **Units:** 60.00 required, 87.00 used**General Education- Data Sciences Major (DTSCS\_BS)**

45 units required

**Writing/Speaking (GWS)**

Complete 9 units with 3 units in each area: Composition, Speech and Effective Writing

**ENGL 15 (or equivalent)****Satisfied** Complete a 3 unit composition course· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	ENGL	15A	Rhetoric and Comp	B	3.00	EN

**CAS 100 (or equivalent)****Satisfied** Complete a 3 unit speech course· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	CAS	100A	Effective Speech	B	3.00	EN

**ENGL 202C****Satisfied** Complete a 3 unit effective writing course· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2018	ENGL	202C	Technical Writing	B-	3.00	EN

**Quantification (GQ)**

Complete 6 GQ units, as shown below.

\*\*Units also apply to major requirements.\*\*

**MATH 140****Satisfied** Complete 4 units· **Units:** 4.00 required, 4.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	MATH	140	Calc Anly Geom I	B	4.00	EN

**MATH 141****Satisfied** Complete 4 units· **Units:** 4.00 required, 4.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2017	MATH	141	Calc Anly Geom II	C+	4.00	EN

**Natural Sciences (GN)**

Courses with the GN attribute fulfill this requirement

**Natural Sciences (GN)****Satisfied** Complete 9 GN units· **Units:** 9.00 required, 9.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2017	ASTRO	1	Astro Universe	A-	3.00	EN
SU 2018	GEOSC	10	National Park Geol	A	3.00	EN

EN = Enrollment, TR = Transfer Course, TE = Test Credit, IP = In-Progress

GPA rounds to 2 digits – the final zero is a place holder

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SU 2018	EGEE	102	Environ Protection	A	3.00	EN

**Arts (GA)**

Courses with the GA attribute fulfill this requirement

**Arts (GA)**

**Not Satisfied** Complete 6 GA units

· **Units:** 6.00 required, 3.00 used, 3.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SU 2018	AA	121	Dsgn Thnkg/Crtvty	A	3.00	EN

**Humanities (GH)**

Courses with the GH attribute fulfill this requirement

**Humanities (GH)**

**Not Satisfied** Complete 6 GH units

· **Units:** 6.00 required, 0.00 used, 6.00 needed

**Social and Behavioral Sciences (GS)**

Courses with a GS attribute fulfill this requirement

**Social and Behavioral Sciences(GS)**

**Satisfied** Complete 6 GS units

· **Units:** 6.00 required, 6.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	PLSC	1	Intr to Am Nat Gov	TR	3.00	TE
FA 2018	COMM	100	Mass Media and Soc		3.00	IP

**Health and Physical Activity (GHA)**

Courses with the GHA attribute fulfill this requirement

**Health and Physical Activity (GHA)**

**Not Satisfied** Complete 3 GHA units

· **Units:** 3.00 required, 0.00 used, 3.00 needed

**Data Sciences, BS (DTSCS\_BS) Major**

50 units required

**Prescribed Courses**

41 units required

**Prescribed Courses-C or higher**

**Not Satisfied** Complete the following

· **Units:** 35.00 required, 29.00 used, 6.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	CMPSC	121	Intro Prgmg Tech	B	3.00	EN
FA 2016	MATH	140	Calc Anly Geom I	B	4.00	EN
FA 2016	STAT	200	Elem Statistics	B	4.00	EN
SP 2017	CMPSC	122	Intermed Progrmg	C+	3.00	EN
SP 2017	IST	210	Org Data	B-	3.00	EN
SP 2017	MATH	141	Calc Anly Geom II	C+	4.00	EN
FA 2017	MATH	220	Matrices	A	2.00	EN
SP 2018	DS	220	Data Mgmt-Data Sci	B	3.00	EN
SP 2018	STAT	380	Stat Data Science	B+	3.00	EN

**Course List:** DS 300, DS 440

**Prescribed Courses**

**Satisfied** Complete the following

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· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2018	ENGL	202C	Technical Writing	B-	3.00	EN

**DS 340-Writing-C or higher required**

**Not Satisfied** Complete this course with the writing attribute to meet university writing and major requirements.

· **Units:** 3.00 required, 0.00 used, 3.00 needed

**Course List:** DS 340W

Additional Courses

9 units required

**Composition and Speech**

**Satisfied** Complete 6 units as shown below.

\*\*ENGL 137 and CAS 137 are cross listed. Only complete one course.\*\*

\*\*ENGL 138 and CAS 138 are cross listed. Only complete one course.\*\*

· **Units:** 6.00 required, 6.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	ENGL	15A	Rhetoric and Comp	B	3.00	EN
SP 2017	CAS	100A	Effective Speech	B	3.00	EN

**Statistics - C or higher**

**Satisfied** Complete 3 units

\*\*MATH 318 and STAT 318 are cross listed. Only complete one course.\*\*

\*\*MATH 414 and STAT 414 are cross listed. Only complete one course.\*\*

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SP 2018	STAT	414	Intro Prob Theory	B+	3.00	EN

**Statistical Modeling Data Sciences Option - DTSCS\_BS-SMDDS**

27 units required

Prescribed Courses

11 units required

**Prescribed Courses**

**Not Satisfied** Complete the following

· **Units:** 11.00 required, 10.00 used, 1.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2017	MATH	230	Calc/Vector Anly	B-	4.00	EN
FA 2017	STAT	297	Special Topics (Statistics Programming Methods)	A-	3.00	EN
SP 2018	STAT	462	Applied Regr Anly	A-	3.00	EN

**Course List:** STAT 440

Additional Courses

4 units required

**MATH 311 or CMPSC 360 - C or higher required**

**Satisfied** Complete 3 units

\*\*If completing MATH 311 select the course with the writing attribute to meet university writing and option requirements.\*\*

· **Units:** 3.00 required, 3.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2017	MATH	311W	Discrete Math	B+	3.00	EN

#### First Year Seminar

**Satisfied** Complete 1 unit with the first year seminar attribute to meet university requirements

· **Units:** 1.00 required, 1.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	EE	9	E E 1st-Yr Smnr	B+	1.00	EN

#### Supporting Courses and Related Areas

12 units required

##### List A

**Not Satisfied** Complete 6 units

\*\*CMPSC 451 and MATH 451 are cross listed. Only complete one course.\*\*

\*\*CMPSC 455 and MATH 455 are cross listed. Only complete one course.\*\*

\*\*MATH 416 and STAT 416 are cross listed. Only complete one course.\*\*

\*\*Only 1 course between MATH 436 and MATH 441 may be used to fulfill this requirement\*\*

\*\*Only 1 course between CMPSC/MATH 451 and CMPSC/MATH 455 may be used to fulfill this requirement\*\*

· **Units:** 6.00 required, 0.00 used, 6.00 needed

**Course List:** CMPSC 451, CMPSC 455, MATH 416, MATH 435, MATH 436, MATH 441, MATH 451, MATH 455, MATH 484, STAT 416, STAT 461, STAT 463, STAT 466, STAT 483

##### List B

**Satisfied** Complete 6 units

· **Units:** 6.00 required, 6.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2018	DS	310	Mach Learn&Data An		3.00	IP
FA 2018	DS	330	Visual Analytics		3.00	IP

#### Data Sciences Major, Applied Data Sci Opt (DTSCS\_BS-SMDDS) Electives & Total

125 units are required for the degree: General Education, Data Sciences Major, Statistical Modeling Data Sci Opt, 107 units required; Electives, 18 units required.

· **Units:** 125.00 required, 87.00 used, 38.00 needed

#### Data Sciences Maj, Stat Modeling Data Sci Opt (DTSCS\_BS-SMDDS) Electives

Complete 18 units

· **Units:** 18.00 required, 8.00 used, 10.00 needed

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
SU 2017	IST	495	Internship	A	1.00	EN
SP 2018	IST	390	Profdev	A	1.00	EN
FA 2018	EARTH	100	Environment Earth		3.00	IP
FA 2018	MATH	415	Intro Math Stat		3.00	IP

#### Data Sciences Maj, Statistical Modeling Data Sciences Opt (DTSCS\_BS-SMDDS) Total

107 units required for General Education, Data Sciences Major and Statistical Modeling Data Sciences Option

· **Units:** 107.00 required, 79.00 used, 28.00 needed

#### Courses not used to satisfy degree requirements in DTSCS\_BS-SMDDS

(Courses not used in total units required for the degree)

#### Total Units Earned

EN = Enrollment, TR = Transfer Course, TE = Test Credit, IP = In-Progress  
GPA rounds to 2 digits – the final zero is a place holder

**Total Units Earned**

· Units: 87.00 used

Term	Subject	Catalog Nbr	Course Title	Grade	Units	Type
FA 2016	PLSC	1	Intr to Am Nat Gov	TR	3.00	TE
FA 2016	CMPSC	121	Intro Prgmng Tech	B	3.00	EN
FA 2016	EE	9	E E 1st-Yr Smnr	B+	1.00	EN
FA 2016	ENGL	15A	Rhetoric and Comp	B	3.00	EN
FA 2016	MATH	140	Calc Anly Geom I	B	4.00	EN
FA 2016	STAT	200	Elem Statistics	B	4.00	EN
SP 2017	CAS	100A	Effective Speech	B	3.00	EN
SP 2017	CMPSC	122	Intermed Progrmg	C+	3.00	EN
SP 2017	IST	210	Org Data	B-	3.00	EN
SP 2017	MATH	141	Calc Anly Geom II	C+	4.00	EN
SU 2017	IST	495	Internship	A	1.00	EN
FA 2017	ASTRO	1	Astro Universe	A-	3.00	EN
FA 2017	MATH	220	Matrices	A	2.00	EN
FA 2017	MATH	230	Calc/Vector Anly	B-	4.00	EN
FA 2017	MATH	311W	Discrete Math	B+	3.00	EN
FA 2017	STAT	297	Special Topics (Statistics Programming Methods)	A-	3.00	EN
SP 2018	DS	220	Data Mgmt-Data Sci	B	3.00	EN
SP 2018	ENGL	202C	Technical Writing	B-	3.00	EN
SP 2018	IST	390	Profdev	A	1.00	EN
SP 2018	STAT	380	Stat Data Science	B+	3.00	EN
SP 2018	STAT	414	Intro Prob Theory	B+	3.00	EN
SP 2018	STAT	462	Applied Regr Anly	A-	3.00	EN
SU 2018	AA	121	Dsgn Thnkng/Crtvty	A	3.00	EN
SU 2018	GEO SC	10	National Park Geol	A	3.00	EN
SU 2018	EGEE	102	Environ Protection	A	3.00	EN
FA 2018	COMM	100	Mass Media and Soc		3.00	IP
FA 2018	DS	310	Mach Learn&Data An		3.00	IP
FA 2018	DS	330	Visual Analytics		3.00	IP
FA 2018	EARTH	100	Environment Earth		3.00	IP
FA 2018	MATH	415	Intro Math Stat		3.00	IP

**Course History**

<u>Term</u>	<u>Subject</u>	<u>Catalog Nbr</u>	<u>Title</u>	<u>Grade</u>	<u>Units</u>	<u>Type</u>
FA 2016	PLSC	1	Intr to Am Nat Gov	TR	3.00	TE
FA 2016	CMPSC	121	Intro Prgmng Tech	B	3.00	EN
FA 2016	EE	9	E E 1st-Yr Smnr	B+	1.00	EN
FA 2016	ENGL	15A	Rhetoric and Comp	B	3.00	EN
FA 2016	MATH	140	Calc Anly Geom I	B	4.00	EN
FA 2016	STAT	200	Elem Statistics	B	4.00	EN
SP 2017	CAS	100A	Effective Speech	B	3.00	EN
SP 2017	CMPSC	122	Intermed Progrmg	C+	3.00	EN
SP 2017	IST	210	Org Data	B-	3.00	EN
SP 2017	MATH	141	Calc Anly Geom II	C+	4.00	EN
SP 2017	MATH	220	Matrices	LD	2.00	EN
SU 2017	IST	495	Internship	A	1.00	EN
FA 2017	ASTRO	1	Astro Universe	A-	3.00	EN
FA 2017	MATH	220	Matrices	A	2.00	EN
FA 2017	MATH	230	Calc/Vector Anly	B-	4.00	EN
FA 2017	MATH	311W	Discrete Math	B+	3.00	EN
FA 2017	STAT	297	Special Topics	A-	3.00	EN

**Course Topic: 2 - Statistics Programming Methods****STAT 297 replaces STAT 184 Introduction to R.**

Per CSRS

**Entered by: JSB44**

SP 2018	DS	220	Data Mgmt-Data Sci	B	3.00	EN
SP 2018	ENGL	202C	Technical Writing	B-	3.00	EN

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GPA rounds to 2 digits – the final zero is a place holder



SP 2018	IST	390	Profdev	A	1.00	EN
SP 2018	STAT	380	Stat Data Science	B+	3.00	EN
SP 2018	STAT	414	Intro Prob Theory	B+	3.00	EN
SP 2018	STAT	462	Applied Regr Anly	A-	3.00	EN
SU 2018	AA	121	Dsgn Thnkng/Crtvty	A	3.00	EN
SU 2018	GEOSC	10	National Park Geol	A	3.00	EN
SU 2018	EGEE	102	Environ Protection	A	3.00	EN
FA 2018	COMM	100	Mass Media and Soc		3.00	IP
FA 2018	DS	310	Mach Learn&Data An		3.00	IP
FA 2018	DS	330	Visual Analytics		3.00	IP
FA 2018	EARTH	100	Environment Earth		3.00	IP
FA 2018	MATH	415	Intro Math Stat		3.00	IP