

**Seventh Annual Report  
from the Committee on Governance  
to the WPI Faculty concerning:**

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**The TTT/NTT Teaching Distribution at WPI:  
Fall 2004 to Spring 2017**

**COG Members:**

Prof. Len Albano

Provost Bruce Bursten

Prof. Glenn Gaudette (Chair)

Prof. Mark Richman (SOF)

Prof. Sue Roberts

Prof. David Spanagel (Sec.)

Prof Bengisu Tulu

Prof. Suzanne Weekes

# Background

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- April 2011: WPI Faculty voted to eliminate the “Three- and Five-Year Rule”
  - Rule: No full-time non-tenure track teaching appointment may extend for more than three consecutive years or for more than a total of five years. *Appointment beyond this limitation must be as a tenure-track Faculty member.*
- Effect of the rule: (...the problem we wanted to solve...!)
  - *In principle*, it prevented WPI from establishing long-term relationships with non-tenure track faculty members.
- Concerns about eliminating the rule:
  - Tenured and tenure-track (TTT) Faculty wanted to maintain its primary role in delivering WPI’s academic curriculum.
  - TTT Faculty wanted to ensure that its commitment to delivering the curriculum (to a rapidly growing student body) did not work against them in expanding their other activities.

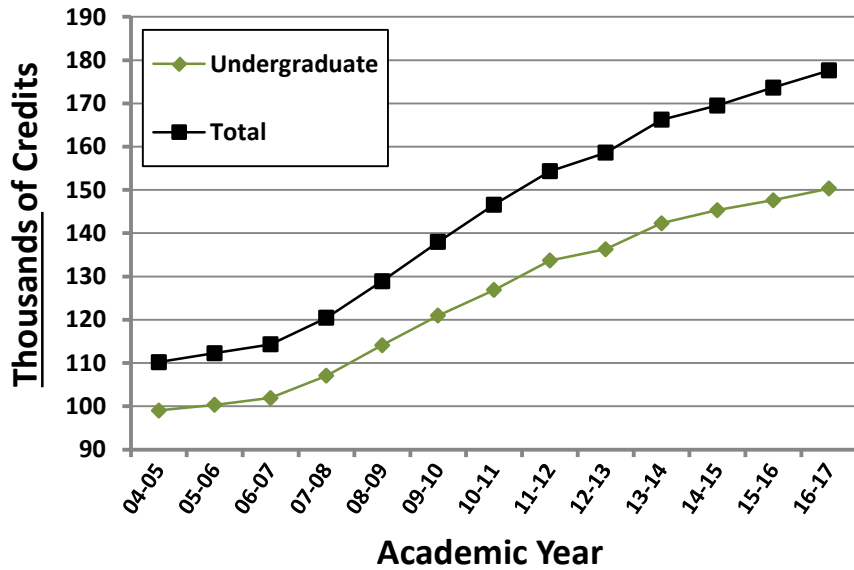
## Solution: Appendix D of the WPI Faculty Constitution (approved April 2011)

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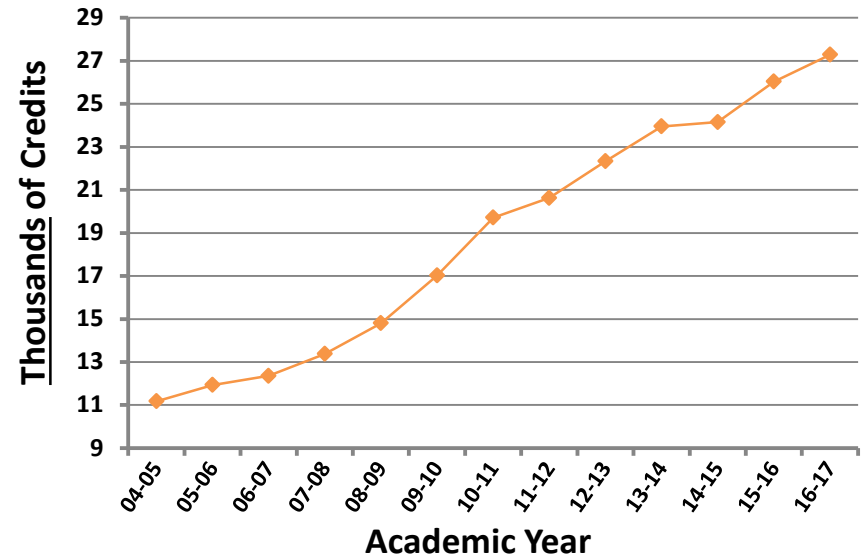
- The tenured and tenure-track (TTT) Faculty at WPI are committed to delivering a *significant majority* of the academic credit offered to WPI students.
- WPI meets this commitment by ensuring that the TTT Faculty increase at a rate that is commensurate with the University's growth and strategic needs.
- Non-tenure track (NTT) faculty members enhance new and existing educational programs, and complement and expand scholarly expertise on campus.
- The Committee on Governance will present a report (for open discussion) to the Faculty each year concerning the distribution of teaching done by TTT faculty members and NTT faculty members.
  - Formal mechanism for Faculty oversight

# Academic Credits Delivered: Fall 2004 to Spring 2017

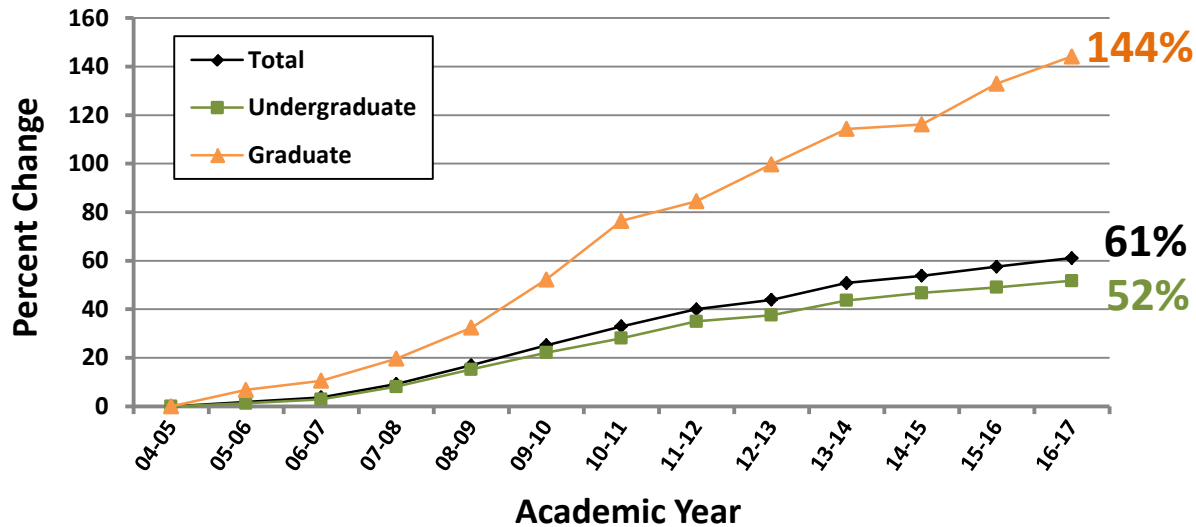
## Academic Credits Delivered



## Graduate Credits Delivered

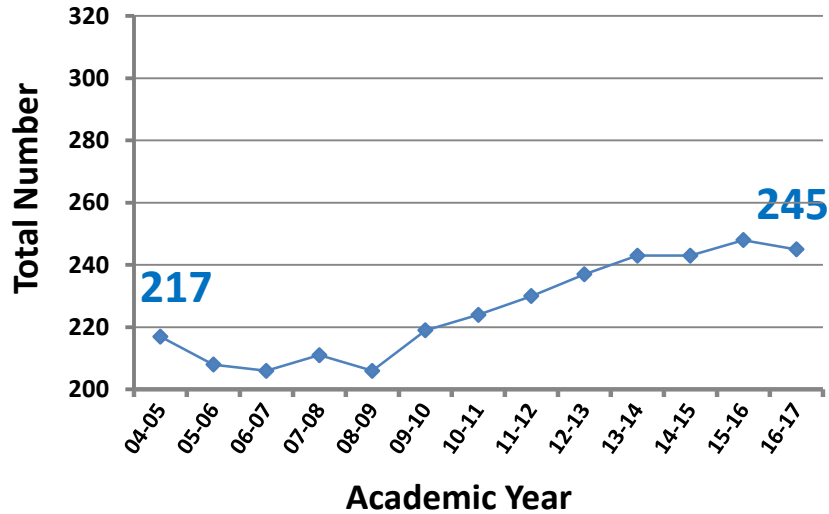


## Percent Change in Credits Delivered Since 2004-05

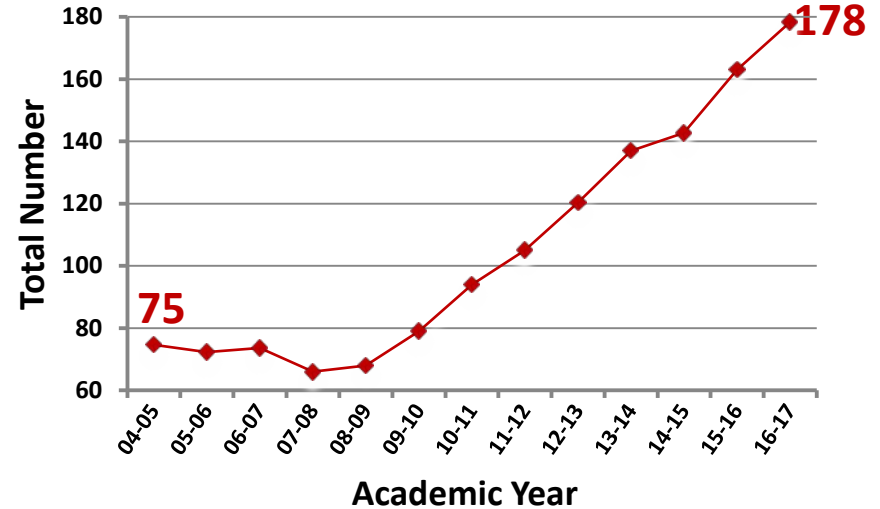


# Faculty Population: Fall 2004 to Spring 2017

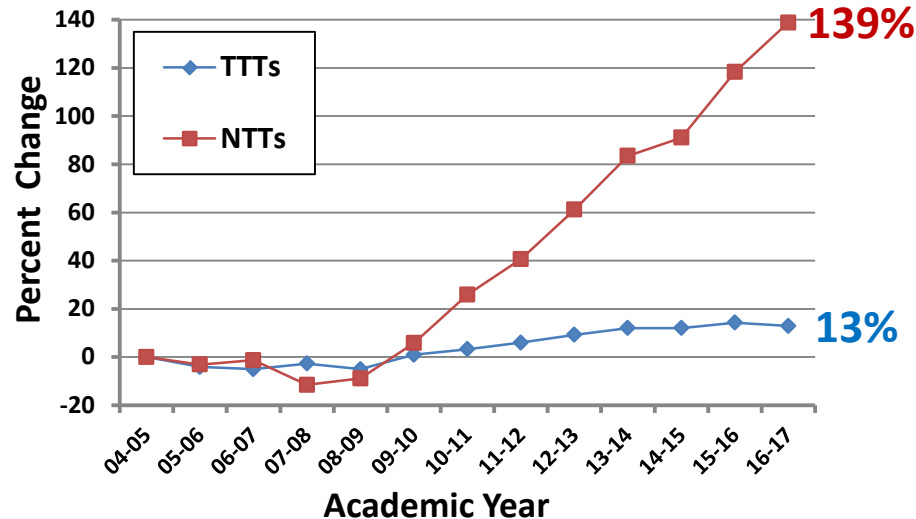
## Total Number of TTTs



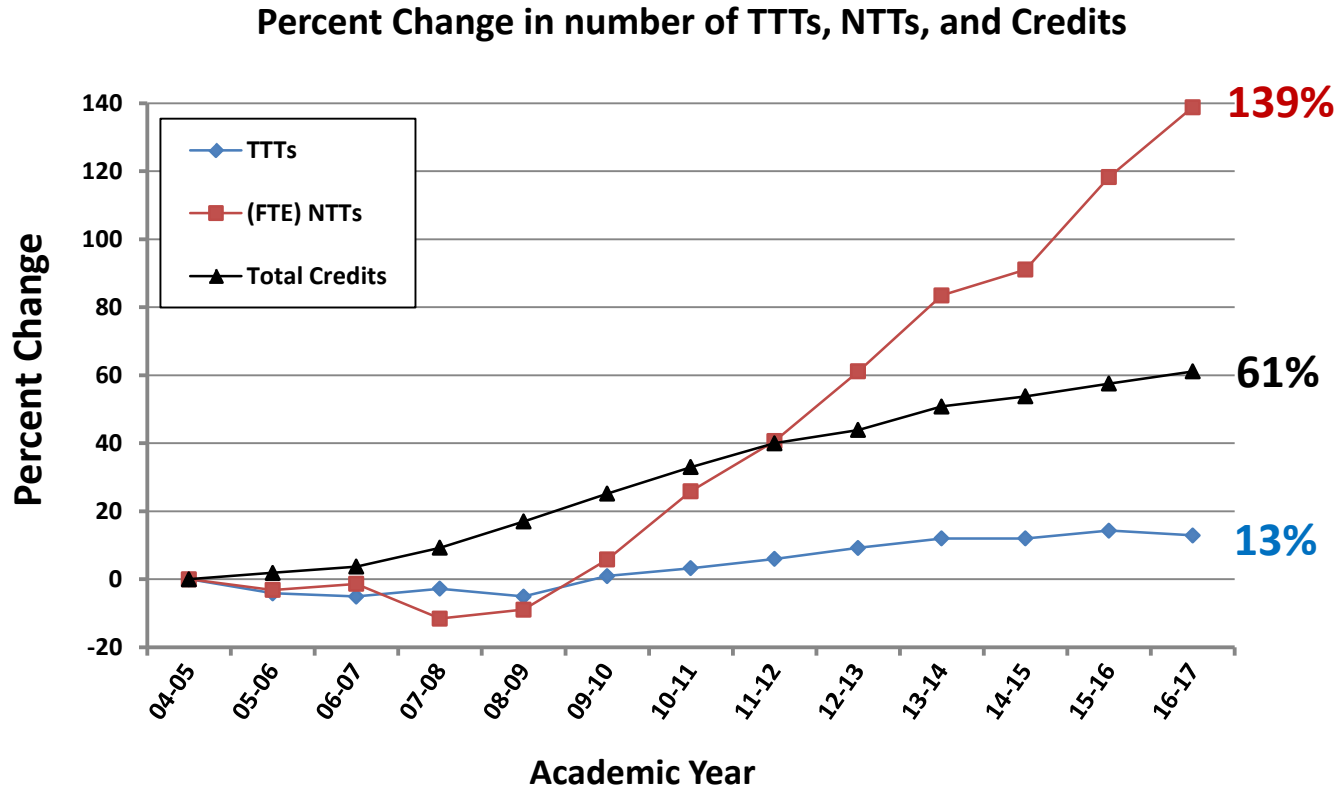
## Total Number of (FTE) NTTs



## Percent Change in TTTs and (FTE) NTTs

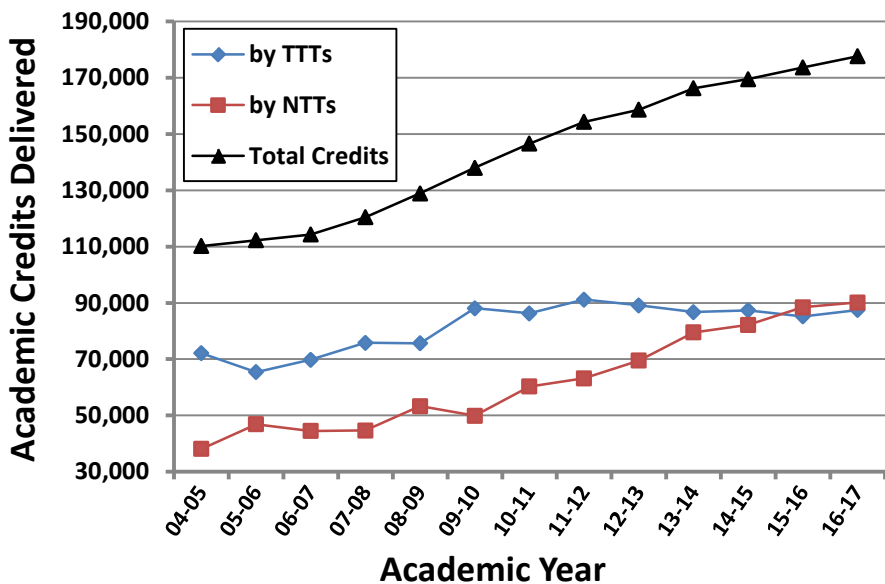


# Changes in the Number of Faculty and Credits: Fall 2004 to Spring 2017

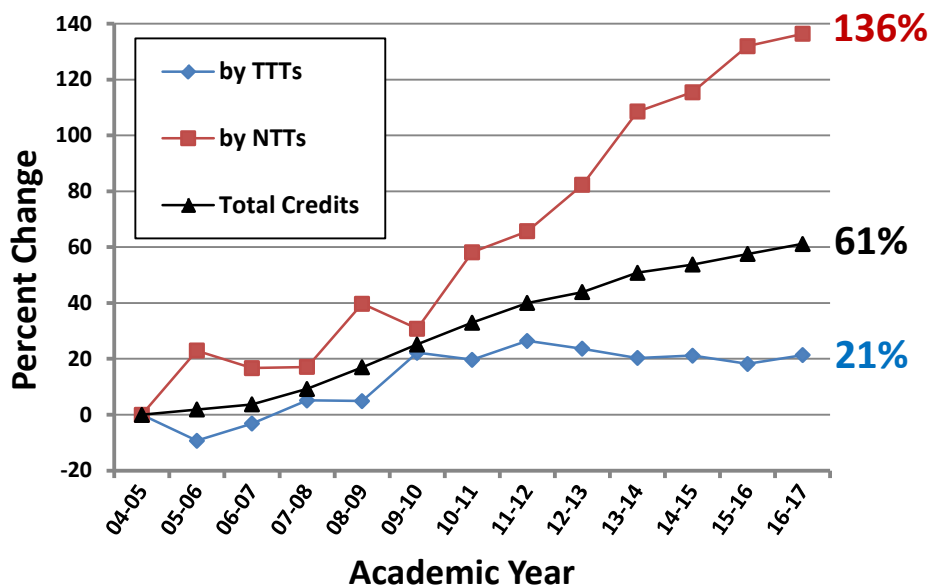


# Academic Credits Delivered by TTTs and NTTs: Fall 2004 to Spring 2017

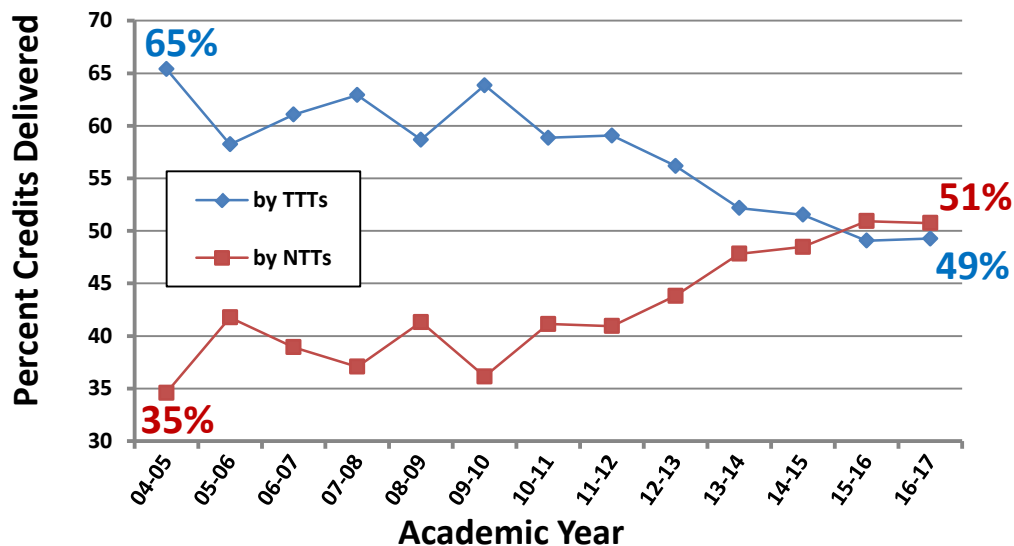
## Academic Credits Delivered



## Percent Change in Credits Delivered



## Percent Credits Delivered by TTTs and NTTs



## Snapshot: AY 16-17

### Undergrad Credits

(150,332)

TTTs: 47.1%

NTTs: 52.9%

### Graduate Credits

(27,284)

TTTs: 61.1%

NTTs: 38.9%

# Division-by-Division Credit Delivery

Division		Credits Delivered			Credits Delivered by TTTs (%)		
		2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
Arts and Sciences	UG	88,022	88,662	90,933	45.3	43.2	43.9
	G	6,919	8,128	9,199	76.0	67.4	66.3
	<b>Total</b>	<b>94,941</b>	<b>96,790</b>	<b>100,132</b>	<b>47.6</b>	<b>45.2</b>	<b>45.9</b>
Engineering	UG	44,344	44,430	44,696	63.1	61.2	58.0
	G	11,113	11,915	11,660	71.3	68.0	65.4
	<b>Total</b>	<b>55,457</b>	<b>56,345</b>	<b>56,356</b>	<b>64.7</b>	<b>62.7</b>	<b>59.5</b>
Business	UG	6,599	6,655	6,890	49.8	52.9	67.0
	G	6,066	5,905	6,281	43.0	36.4	46.0
	<b>Total</b>	<b>12,665</b>	<b>12,559</b>	<b>13,171</b>	<b>46.5</b>	<b>45.2</b>	<b>57.0</b>
IGSD	UG	3,671	4,833	4,425	11.0	8.3	6.3
	G	7	5	12	0.0	0.0	0.0
	<b>Total</b>	<b>3,678</b>	<b>4,838</b>	<b>4,437</b>	<b>11.0</b>	<b>8.3</b>	<b>6.3</b>
Other	UG	2,723	3,052	3,388	0.0	0.0	3.2
	G	49	88	132	0.0	0.0	56.8
	<b>Total</b>	<b>2,772</b>	<b>3,140</b>	<b>3,520</b>	<b>0.0</b>	<b>0.0</b>	<b>5.2</b>
Total	UG	145,359	147,632	150,332	<b>49.2</b>	<b>47.1</b>	<b>47.1</b>
	G	24,154	26,035	27,284	<b>65.4</b>	<b>60.5</b>	<b>61.1</b>
	<b>Total</b>	<b>169,513</b>	<b>173,666</b>	<b>177,616</b>	<b>51.5</b>	<b>49.1</b>	<b>49.3</b>



# Arts and Sciences: Dept.-by-Dept. Credit Delivery

Dept.	Credits delivered			Credits delivered by TTTs (%)		
	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
<b>BBT</b>	6,611	6,755	6,666	68.0	68.4	70.7
<b>CBC</b>	9,108	8,838	8,444	37.6	36.2	49.7
<b>CS</b>	19,871	21,545	23,134	52.1	49.1	48.7
<b>HUA</b>	21,991	22,205	22,830	47.9	48.7	44.7
<b>MA</b>	23,424	22,910	23,934	41.4	37.8	41.1
<b>PH</b>	8,155	8,070	8,231	38.9	30.5	31.4
<b>SSPS</b>	5,777	6,465	6,888	60.3	53.8	46.4
<b>Total</b>	<b>94,937</b>	<b>96,790</b>	<b>100,127</b>	<b>47.6</b>	<b>45.2</b>	<b>45.9</b>

# Engineering: Dept.-by-Dept. Credit Delivery

Dept.	Credits delivered			Credits delivered by TTTs (%)		
	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
<b>BME</b>	4,733	4,305	4,890	68.6	61.4	62.7
<b>CEE</b>	6,389	6,769	6,183	66.1	68.4	68.1
<b>Ch.E.</b>	5,666	4,929	5,490	73.7	75.8	70.9
<b>ECE</b>	12,680	13,292	12,131	64.7	62.0	50.6
<b>FPE</b>	1,589	1,869	1,590	67.1	56.7	57.7
<b>ME</b>	24,397	25,182	26,068	64.7	59.5	58.8
<b>Total</b>	<b>55,454</b>	<b>56,345</b>	<b>56,352</b>	<b>67.1</b>	<b>62.7</b>	<b>59.5</b>

# CPE (Corporate and On-line) Credit Delivery

## Fall and Spring

	Credits delivered			Credits delivered by TTTs (%)		
	2014-15	2015-16	2016-17	2014-15	2015-16	2016-17
Corporate	<b>3,701</b>	<b>4,230</b>	<b>3,715</b>	<b>27%</b>	<b>19%</b>	<b>30%</b>
Online Grad FT	1,425	1,465	1,762	45%	47%	37%
Online Grad PT	836	1,867**	2,503	50%	35%	18%
Online UG	506	701	820	75%	57%	64%
Online Other*	1,641	912**	304	8%	18%	18%
<b>Online Total</b>	<b>4,408</b>	<b>4,945</b>	<b>5,389</b>	<b>36%</b>	<b>39%</b>	<b>31%</b>

\* "Other" are corporate students taking WPI online courses.

\*\* A large number of students were reclassified from "Other" to "Grad PT" in 2015-16.

Note: Online credits do not include FSB hybrid/blended courses.

# CPE (Corporate and On-line) Credit Delivery (cont.)

## Summer

	Credits delivered			Credits delivered by TTTs (%)		
	Summer 2015	Summer 2016	Summer 2017	Summer 2015	Summer 2016	Summer 2017
Corporate	489	342	444	26%	23%	28%
Online Grad FT	192	251	350	9%	14%	4%
Online Grad PT	182	332**	432	26%	14%	17%
Online UG	83	190	65	29%	10%	23%
Online Other*	198	73**	32	20%	19%	53%
Online Total	655	846	879	20%	14%	14%

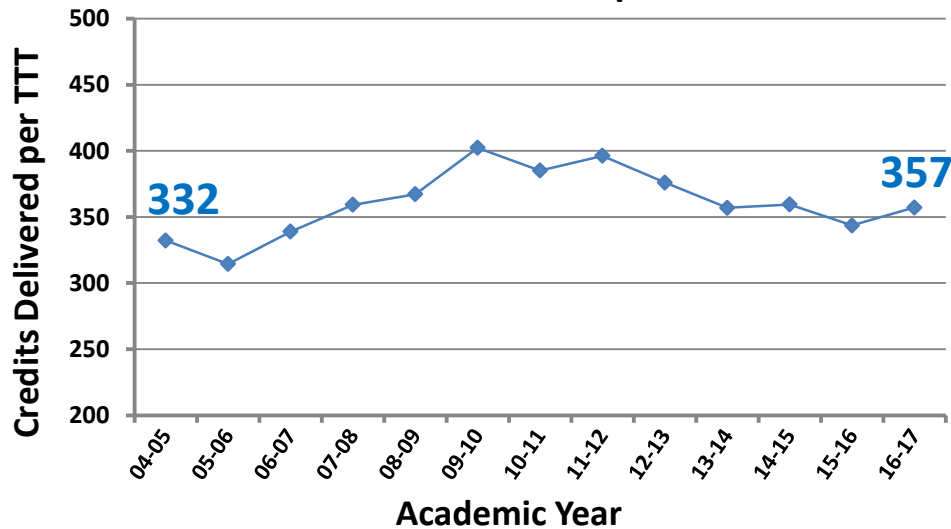
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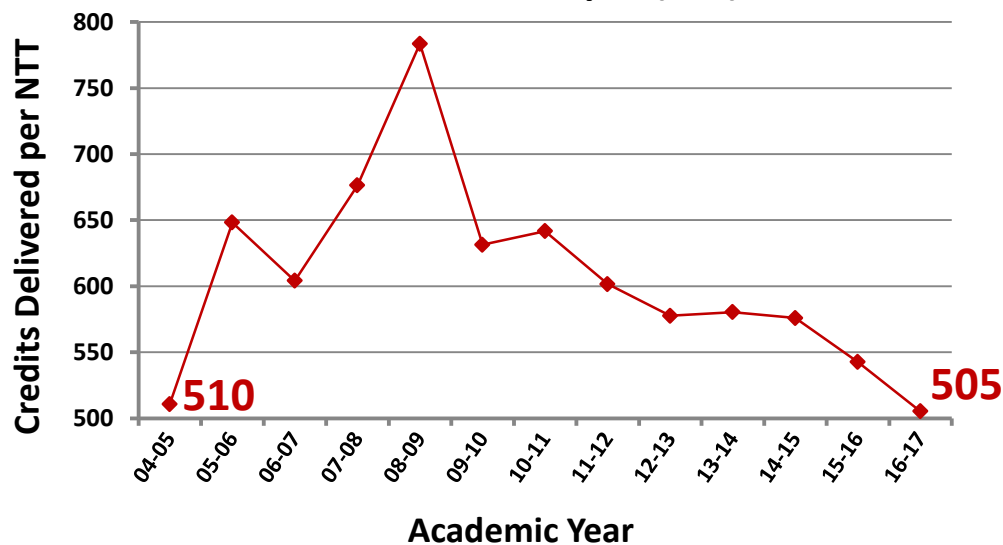
Note: Online credits do not include FSB hybrid/blended courses.

# Credits Delivered per Faculty Member: Fall 2004 to Spring 2017

## Credits Delivered per TTT



## Credits Delivered per (FTE) NTT



## Credit Distribution by TTT Rank 2016-17

Rank	Number	Credits Delivered	Credits Delivered per Faculty
Assistant Professor	58	19,040	328
Associate Professor	88	34,304	390
Full Professor	101	34,144	338
<b>Total</b>	<b>247*</b>	<b>87,488</b>	<b>356</b>

(\*Includes two who came to WPI in Jan. 2018)

## Glance at the Most Recent Changes

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	Fall 2016	Fall 2017	Percent Change (2016 to 2017)
FTE Undergraduate Students*	4,195	<b>4,346</b>	<b>3.6 %</b>
FTE Graduate Students*	1,297	<b>1,302</b>	<b>0.4%</b>
Number of TTTs	245	<b>253</b> (254**)	<b>3.3%</b> (3.6%**)
Number of (FTE) NTTs	178	<b>182</b>	<b>2.2 %</b>

\*From WPI's "Common Data Set" from 2016-17 and 2017-18

\*\* As of January 1, 2018

# Summary...

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- Summary: From AY 2004-5 to AY 2016-17
  - Student credit enrollments have increased by **61%**
  - Tenured and Tenure-Track Faculty:
    - Headcount has increased by **13%**
    - Fraction of total credits delivered has decreased from **65%** to **49%**
    - Credits delivered per TTT has increased by **7.5%**
  - Non-Tenure Track Faculty:
    - FTEs have increased by **137%**
    - Fraction of total credits delivered has increased from **35%** to **51%**
    - Load (in credits) per (FTE) NTT has decreased by **0.8%**
- Observation: From AY 2015-16 to AY 2016-17
  - Student credit enrollments increased by **2.3%**
  - Tenured and Tenure-Track Faculty:
    - Headcount decreased by **1.2%**
    - Fraction of total credits delivered increased from **49.1%** to **49.3%**
    - Credits delivered per TTT delivered increased by **3.9%**