

SDAMPP Coffee Break:  
CAMPEP  
Graduate Programs Annual Report  
Results- AY 2023-2024

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# Graduate Programs Updates

- Program Submission Updates
- Review of Graduate Program Annual Reports AY-2023-2024
- Proposed updates to Graduate Standards

CAMPEP	
Commission on Accreditation of Medical Physics Education Programs, Inc.	
<b>Graduate Education Programs</b>  Accredited Degree Programs  <b>General Information/ Information for Program Directors</b>  Standards for Accreditation of Graduate Educational Programs	<b>Graduate Programs</b>  CAMPEP offers accreditation of graduate educational programs in medical physics. The goal is to ensure that a graduate program provides rigorous and thorough education such that program graduates are equipped with the appropriate skills to pursue a career in medical physics.  The <b>Process</b> of CAMPEP accreditation of graduate programs requires that the program submit a self assessment report using the <b>template</b> available giving evidence of consistency with a set of clearly stated <b>standards</b> . After review of this report, a survey team will conduct a program site visit to validate the assessment. If successful, accreditation is granted for a period of 3 years. Re-accreditation requires an updated self assessment report. The <b>Graduate Education Program Review Committee (GEPRC)</b> is responsible for managing the accreditation of graduate programs and

# Graduate Program Accreditation and Reaccreditation Self-Study Submissions

- MOCAM has limited support for updates and revisions
- Transitioning to SurveyMonkeyApply system
  - Currently being implemented for Residency Program applications
  - Template established for Graduate Programs

# May 2025 Status

## Overview of Graduate Programs

	2025	(2021)
• # Accredited graduate programs (institutions):	65	(57)
• # Accredited DMP programs:	4	(4)
• # Programs in initial review process:	1	(2)
• # Accredited programs in:		
– US	47	(42)
– Canada	15	(11)
– Outside North America	3	(4)

### Accredited Certificate Programs

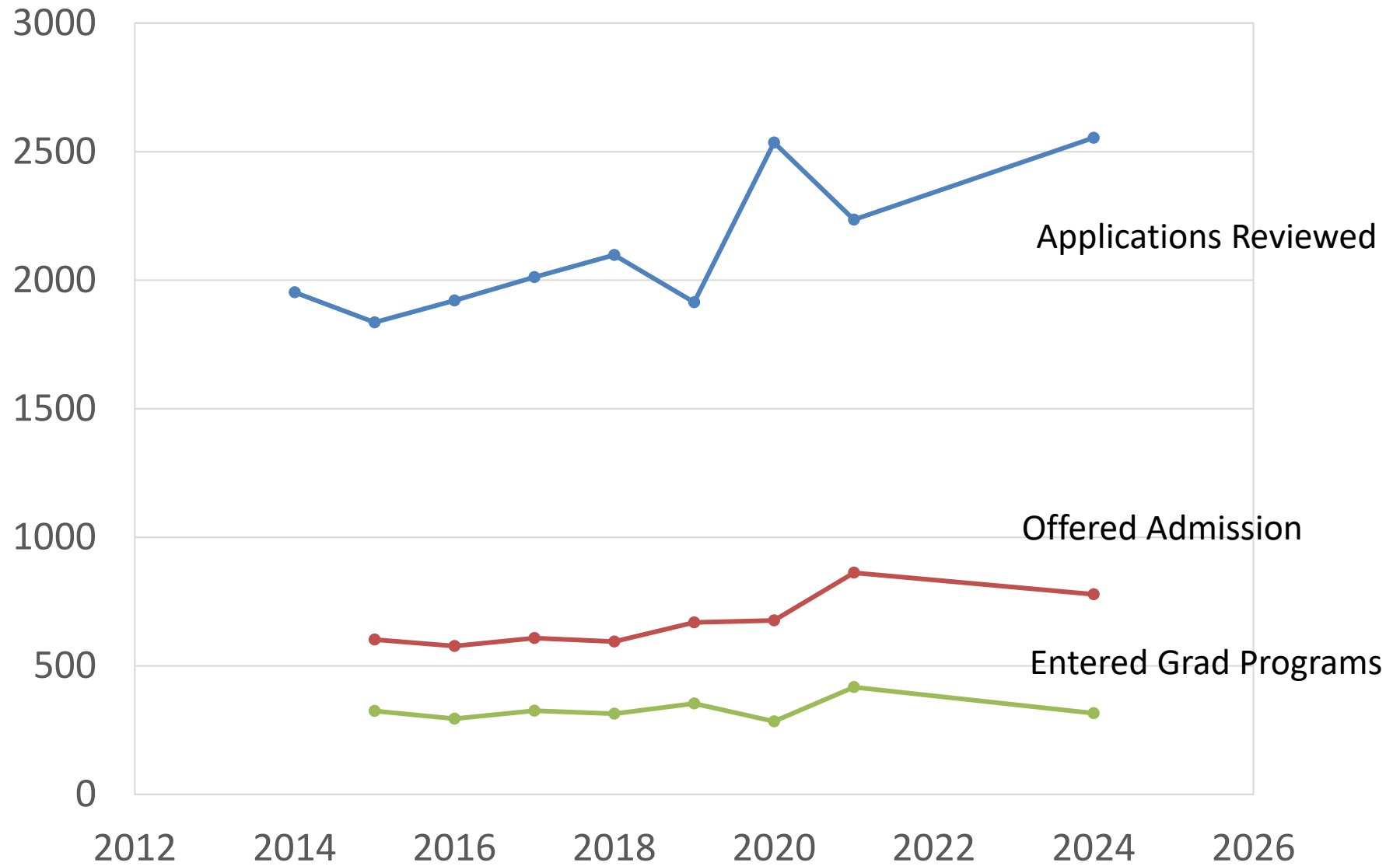
• # in Graduate programs:	33	(24)
• # in Residency programs:	5	(5)

# AY 23-24 Program Reports

## Program Degree Offerings (61 Programs)

# Programs offering:	2016	2017	2018	2019	2020	2021	2024
MS Degrees	47	47	48	49	50	52	54
PhD Degrees	36	37	38	38	39	40	44
MS & PhD Degrees	31	32	33	32	33	34	35
MS Degree Only	16	15	15	14	16	18	19
PhD Degree Only	5	5	5	6	7	6	9
DMP	4	5	5	5	5	4	4
MS & DMP				5	5	4	4
Certificate	26	27	27	27	29	29	38

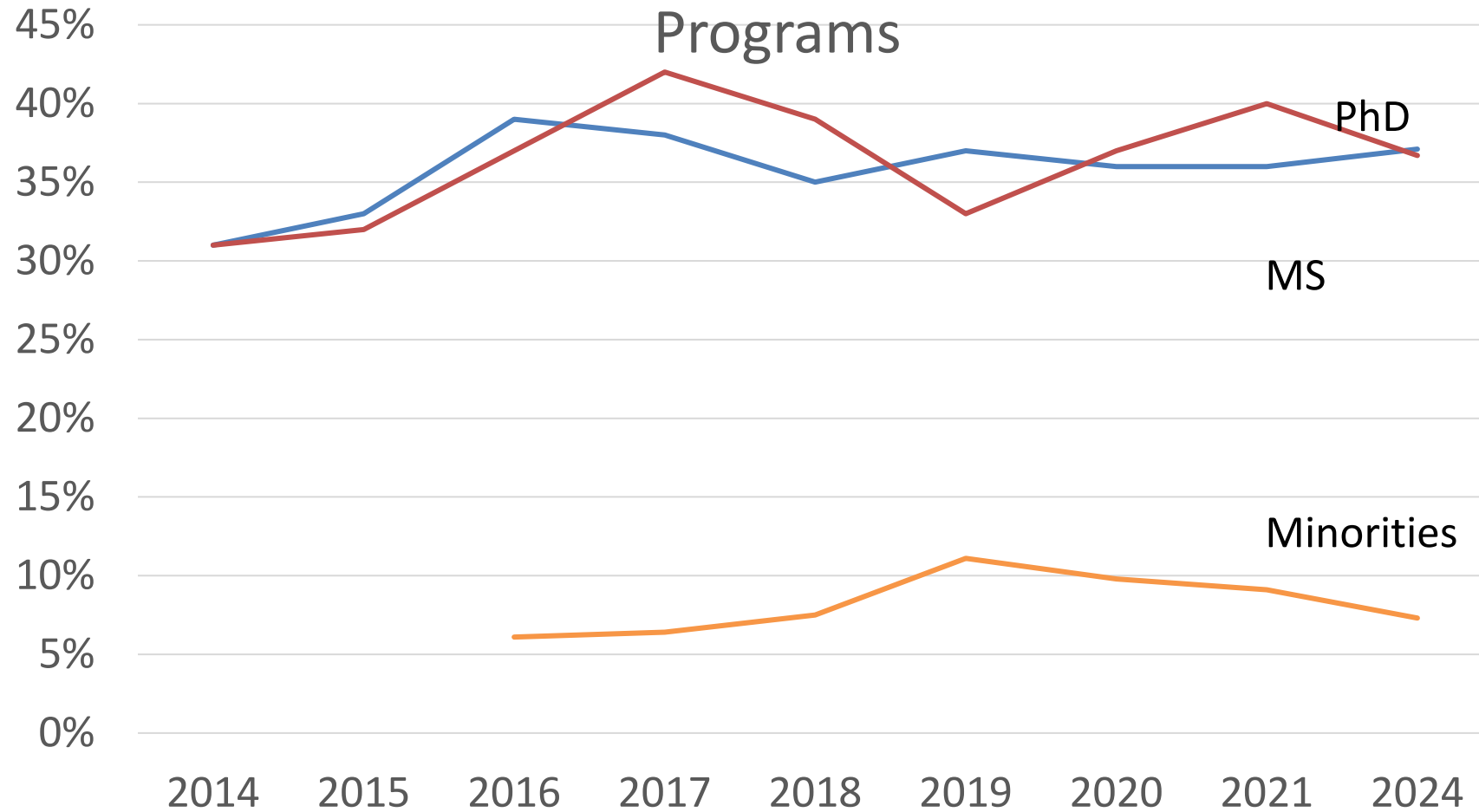
# All Graduate Admissions



## Graduate Program (MS, PhD, DMP) Applicants

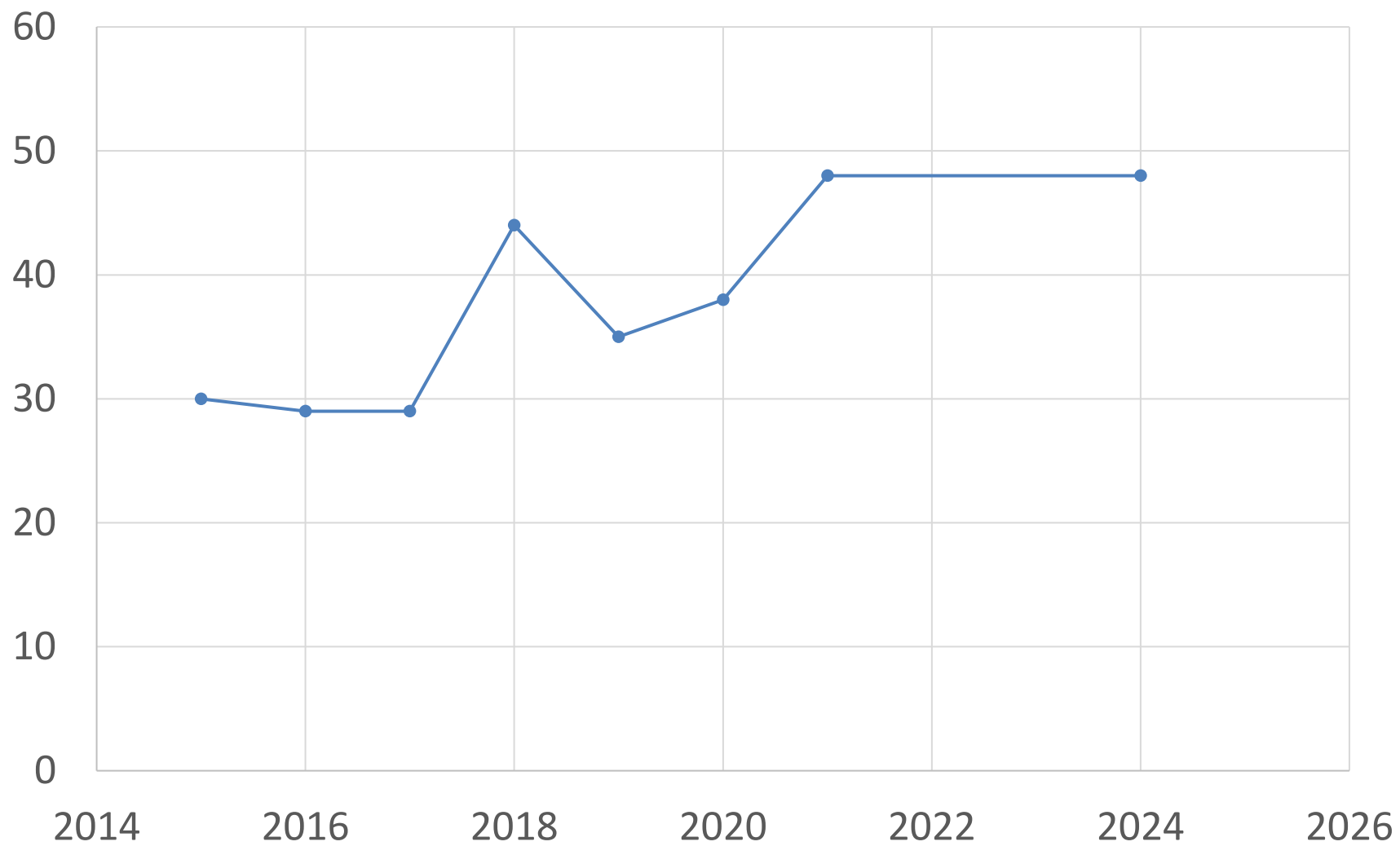
	2015	2016	2017	2018	2019	2020	2021	2024
# applications reviewed	1836	1921	2012	2098	1914	2535	2235	2554
# offered admission	577	608	594	669	677	862	778	795
# matriculated	294	325	314	353	284	417	316	411
Average GPA (MS/PhD/DMP)	3.5/3.6	3.5/3.7	3.4/3.6	3.4/3.6	3.5/3.7/3.4	3.5/3.6/3.4	3.5/3.8/3.4	3.4/3.6/3.6

# % Females & Minorities Entering Graduate Programs





## Number of Minorities in Grad Programs



# Diversity

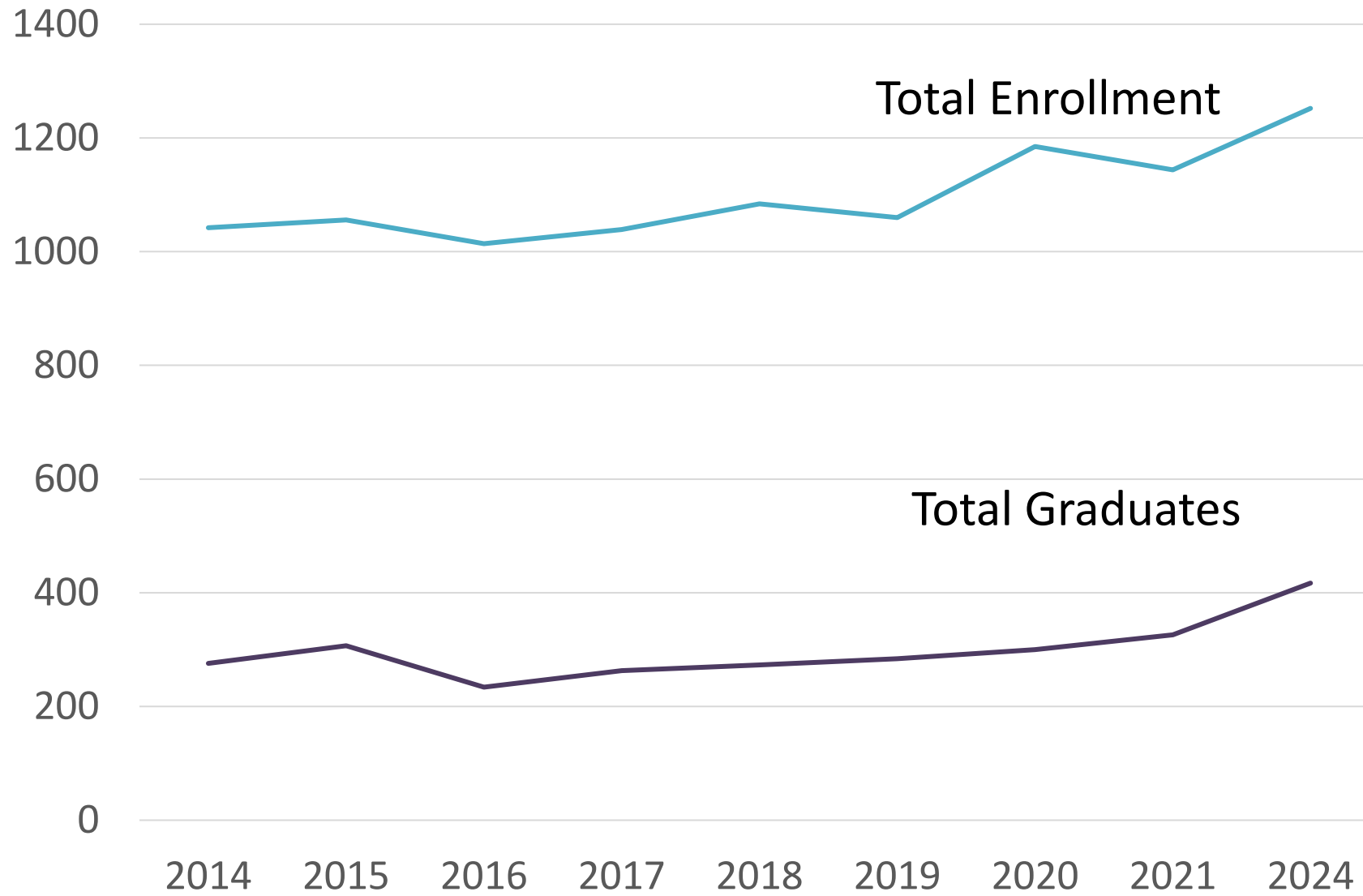
## Entering Class – Gender

	2015	2016	2017	2018	2019	2020	2021	2024
MS/MSc – Female	33%	39%	38%	35%	37%	36%	36%	37%
PhD – Female	32%	37%	42%	39%	33%	37%	40%	37%
DMP - Female	15%	42%	42%	80%	17%	29%	66%	8%

## Entering Class – Ethnicity

	2016	2017	2018	2019	2020	2021	2024
Black	7	13	7	10	15	14	24
Latino	20	15	35	24	20	29	22
Native American	1	0	0	0	3	1	1
Pacific Islanders	1	1	2	1	0	4	1
% under-represented	6.4%	7.5%	11.1%	9.8%	9.1%	7.3%	7.3%
Other	37	30	33	27	30	9	35

# Enrollments



# Enrollment and Graduates

	2015	2016	2017	2018	2019	2020	2021	2024
<b>Enrollment</b>								
MS/MSc	449	402	416	447	433	501	488	547
PhD	572	577	583	603	598	660	637	679
DMP	35	35	40	34	29	24	19	26
<b>Total</b>	<b>1056</b>	<b>1014</b>	<b>1039</b>	<b>1084</b>	<b>1060</b>	<b>1185</b>	<b>1144</b>	<b>1252</b>
<b>Graduates</b>								
MS/MSc	202	139	159	168	171	193	203	280
PhD	99	89	94	94	103	130	113	131
DMP	6	6	10	11	10	9	10	6
<b>Total</b>	<b>307</b>	<b>234</b>	<b>263</b>	<b>273</b>	<b>284</b>	<b>300</b>	<b>326</b>	<b>417</b>

# Premature Departure

	2018	2019	2020	2021	2024
Medical or personal reasons:	14	10	15	3	8
Poor academic performance:	3	8.5	3	4	4
Left to take job:	3	7	2	5	1
Not a match for interests:	3	5.5	6	5	8
Failed required examinations	1	2	2	0	1
Other:	1	6	0	7	4
Total	25	39	28	24	26

# MS/MSc Graduate Destination (280)

	2016	2017	2018	2019	2020	2021	2024
Applied to residency		50%	43%	53% (91)	40% (78)	40%(82)	42%(118)
Accepted into residency		68%	68%	74% (67)	73% (57)	78% (64)	81% (95)
Entered RT residency	30%	28%	28%	(54)	27%(48)	27% (54)	31% (86)
Entered IP residency	4%	5%	5%	6% (11)	5% (9)	6% (12)	8% (21)
Clinical position	17%	8%	8%	11% (19)	12% (24)	6% (13)	10% (29)
Another degree	35%	38%	38%	33% (57)	25% (48)	21% (42)	29% (81)
Position in industry	7%	7%	7%	8% (13)	8% (15)	4% (9)	9% (25)
Position in government	2%	1%	1%	1% (2)	1% (2)	2% (3)	2% (5)
Still seeking position	2%	4%	4%	1% (2)	5% (11)	3% (7)	5% (13)
Position outside MP	0%	1%	8%	1% (2)	4% (8)	7% (15)	7% (1)
				6%			

**81 %  
Percent of  
MS who  
applied to  
residency  
were  
accepted**

# PhD Graduate Destination (131)

	2016	2017	2018	2019	2020	2021	2024
Applied to residency		54%	48%	49% (50)	48% (62)	47%(53)	63%(83)
Accepted into residency		102%	96%	98% (49)	94% (58)	96% (51)	99% (82)
Entered RT residency	37%	41%	48%	45% (46)	42% (49)	47%(53)	50%(65)
Entered IP residency	9%	11%	6%	8% (8)	8% (9)	5% (6)	13% (17)
Clinical non-academic	15%	10%	5%	8% (8)	2% (3)	5% (3)	7% (9)
Position in academia	19%	24%	21%	13% (13)	8% (10)	12% (13)	8% (11)
Position in industry	3%	1%	5%	5% (5)	11% (14)	13% (15)	6% (8)
Position in Government	3%	0%	2%	3% (3)	3% (4)	1% (1)	4% (5)
Position outside MP	3%	3%	4%	4% (4)	6% (8)	4% (5)	2% (2)
Still seeking a position	3%	1%	4%	4% (4)	<1% (1)	2% (13)	0% (0)

**99% Percent of PhDs who applied to residency were accepted**

# Certificate Programs

## 31 Programs

	2015	2016	2017	2018	2019	2020	2021	2024
Enrollment	79	66	39	50	49	51	62	122
Graduates	28	24	38	27	42	32	43	51

## Certificate Graduate Destinations (51)

	2016	2017	2018	2019	2020	2021	2024
Accepted into residency	-	45%	81%	67%	69%	67%	65%(33)
Entered RT residency	-	32%	70%	64%	60%	58%	47%(24)
Entered IP residency	4%	3%	11%	10%	0%	9%	6%(3)



# Certificate Graduate Destinations (43)

	2016	2017	2018	2019	2020	2021	2024
Accepted into residency	-	45%	81%	67%	69%	67%	77%
Entered RT residency	-	32%	70%	64%	60%	58%	56%
Entered IP residency	4%	3%	11%	10%	0%	9%	7%
Non-academic clinical	46%	32%	56%	7%	6%	11%	7%
Entered another degree program	4%	3%	11%	0%	0%	0%	0%
Position in academia	4%	8%	11%	10%	22%	16%	12%
Position in industry	0%	0%	0%	0%	3%	5%	2%
Position in Government	38%	5%	11%	0%	0%	0%	2%
Position outside MP	0%	0%	0%	2%	3%	0%	0%
Still seeking a position	0%	0%	0%	5%	3%	0%	16%

## DMP Graduate Destination (6)

	2020	2021	2024
Non-academic clincial	89% (8)	80% (8)	75% (4)
Academic (tenure-track)	11% (1)	20% (2)	17% (1)
Industry	0	0	17%(1)

# Updates to Graduate Standards

- Promote equal depth of coverage for all subject areas
  - Modified Narrative/Preamble for Grad Standard 8
- Provide more definitive descriptions for foundational physics

# Draft Standards Language

## Core Graduate Curriculum

The structure of course work in a graduate medical physics educational program may be defined by the program but shall, as a minimum, include the topics identified in Graduate Standards 8.1 through 8.7. as part of the graduate curriculum

Graduate programs shall provide education in all core topics at an appropriate graduate-level depth. CAMPEP will assess compliance with these Graduate Standards based on the course materials provided by the program. Graduates of a CAMPEP-accredited graduate program should be equally prepared to enter a CAMPEP-accredited residency program in a clinical specialization of the student's choice.

- Typically, completion of a master's program will take two academic years. Significant deviations from this period should be justified.

# Grad Standard 3.1

Students entering a medical physics graduate educational program shall have a strong foundation in basic physics. This shall be demonstrated either by an undergraduate degree in physics, or by a degree in an engineering discipline, or another of the physical sciences, and a minimum of three fundamental upper-level physics courses taught through a physics department. Fundamental physics courses may include, but are not limited to: classical mechanics, modern physics, quantum mechanics, electromagnetism, statistical physics, thermodynamics, optics, nuclear/particle physics and astrophysics.

## Acknowledgement

Thanks to all program directors for timely response to our request for data.