

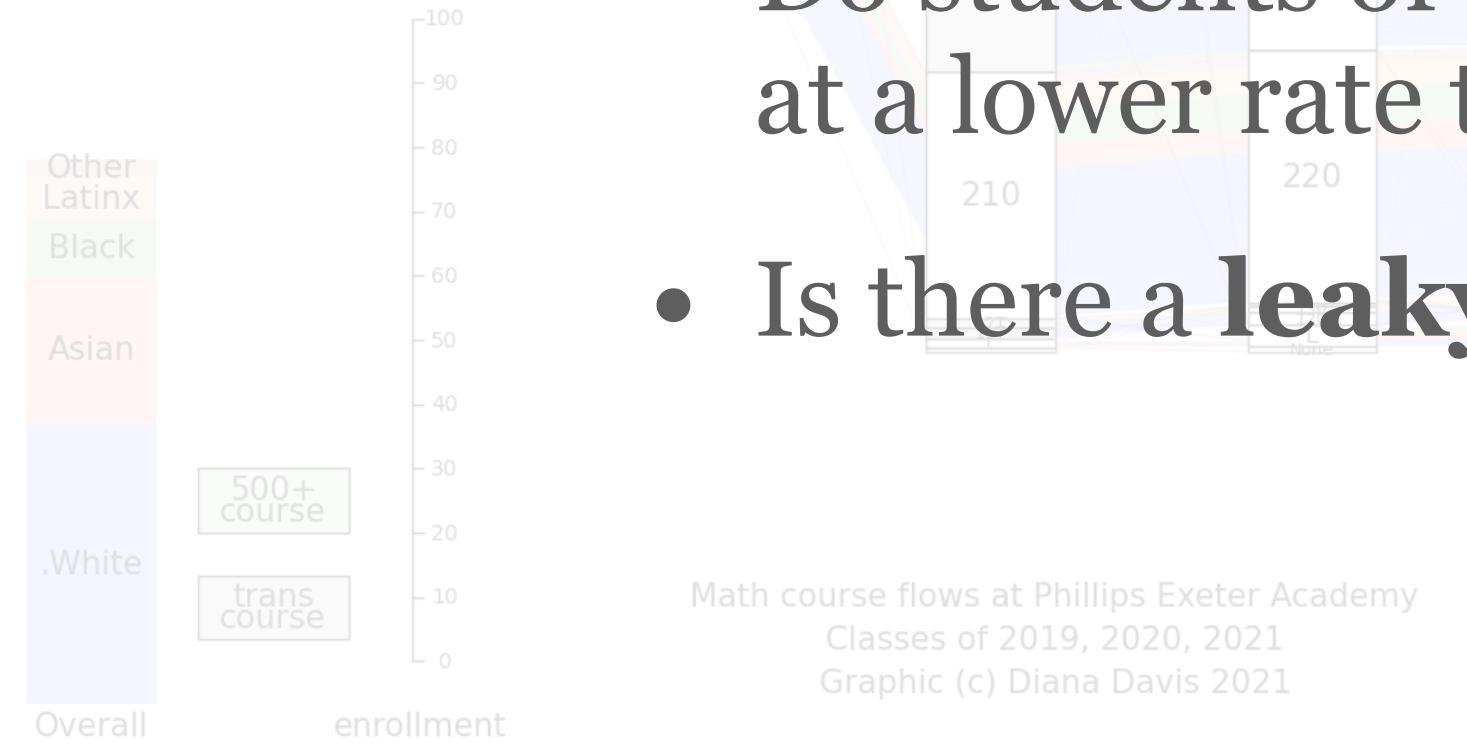
Analysis of PEA math course enrollment data

Diana Davis

4 March 2021

Motivating questions:

- Do students of color take **500-level courses** at a lower rate than students of other races?
- Is there a **leaky pipeline**?



Math course flows at Phillips Exeter Academy
Classes of 2019, 2020, 2021
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	A	B	C	D	E	F	G	H	I	J	K
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie		2019	M	Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave		2019	F	Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	F	Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose		2019	F	Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American, Asian	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR
306	17FA	MAT*13T	MAT*13T*AT	Transition 1 Mathematics	Marshall, Laura		2021	M	Hispanic Latino	Hispanic Latino, Amer Indian/Alaskan, Caucasian	JR
307	17FA	MAT*421	MAT*421*E	Calculus (enriched) *	Kaminski, Jerzy		2019	M	Asian American	Asian American	LO
308	17FA	MAT*411	MAT*411*C	Intro Calculus (enriched) *	Molina, Jose		2019	M	Caucasian	Caucasian	JR
309	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Asian American	Asian American	LO
310	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2021	F	Asian American	Asian American	JR
311	17FA	MAT*230	MAT*230*FY	Integrated Mathematics	Feng, Zuming		2020	M	Asian American	Asian American	JR
312	17FA	MAT*420	MAT*420*AT	Calculus *	Hardej, Hobart		2019	F	Asian American	Asian American	JR
313	17FA	MAT*320	MAT*320*A	Adv Integrated Mathematics	Chen, Xitai		2019	M	Asian American	Asian American	JR
314	17FA	MAT*310	MAT*310*FY1	Adv Integrated Mathematics	Chen, Xitai		2019	M	Caucasian	Caucasian	LO
315	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	M	Caucasian	Caucasian	JR
316	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2021	M	Caucasian	Caucasian	JR
317	17FA	MAT*13T	MAT*13T*BU	Transition 1 Mathematics	Ramesh, Gayatri		2021	F	Other	Other, Caucasian	JR
318	17FA	MAT*220	MAT*220*DW	Integrated Mathematics	Wolfson, Joe		2020	F	Unknown	Unknown	JR
319	17FA	MAT*22T	MAT*22T*FY	Transition 2 Mathematics	Kaminski, Jerzy		2020	M	Caucasian	Caucasian	LO
320	17FA	MAT*22T	MAT*22T*AT	Transition 2 Mathematics	Coogan, Gwyn		2020	F	White - Middle East	White - Middle East	LO
321	17FA	MAT*12T	MAT*12T*GZ	Transition 1 Mathematics	Halani, Aviva		2021	F	Other	Other, Caucasian	JR
322	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose		2019	F	Caucasian	Caucasian	JR
323	17FA	MAT*230	MAT*230*BU	Integrated Mathematics	Kaminski, Jerzy		2020	M	Unknown	Unknown	JR
324	17FA	MAT*21T	MAT*21T*FY	Transition 2 Mathematics	Geer, Panama		2021	F	Asian American	Asian American	JR
325	17FA	MAT*210	MAT*210*EX	Integrated Mathematics	Hew, Brandon		2020	M	Asian American	Asian American	JR
326	17FA	MAT*421	MAT*421*D	Calculus (enriched) *	Bergofsky, Eric		2019	M	Unknown	Unknown, Asian American	JR
327	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian	JR
328	17FA	MAT*220	MAT*220*AT	Integrated Mathematics	Braile, Dale		2020	F	Caucasian	Caucasian	JR
329	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie		2020	M	Hispanic Latino	Hispanic Latino	JR
330	17FA	MAT*12T	MAT*12T*FY	Transition 1 Mathematics	Spanier, Greg		2021	M	Caucasian	Caucasian	JR
331	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Caucasian	Caucasian	JR
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293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics			2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math			2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math			2019	M	Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics			2019	F	Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics			2021	F	Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics			2019	F	Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics			2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics			2020	F	Asian American	Asian American, Asian	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics			2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR
306	17FA	MAT*13T	MAT*13T*AT	Transition 1 Mathematics	Marshall, Laura		2021	M	Hispanic Latino	Hispanic Latino, Amer Indian/Alaskan, Caucasian	JR
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309	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Asian American	Asian American	LO
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312	17FA	MAT*420	MAT*420*AT	Calculus *	Hardej, Hobart		2019	F	Asian American	Asian American	JR
313	17FA	MAT*320	MAT*320*A	Adv Integrated Mathematics	Chen, Xitai		2019	M	Asian American	Asian American	JR
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315	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	M	Caucasian	Caucasian	JR
316	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2021	M	Caucasian	Caucasian	JR
317	17FA	MAT*13T	MAT*13T*BU	Transition 1 Mathematics	Ramesh, Gayatri		2021	F	Other	Other, Caucasian	JR
318	17FA	MAT*220	MAT*220*DW	Integrated Mathematics	Wolfson, Joe		2020	F	Unknown	Unknown	JR
319	17FA	MAT*22T	MAT*22T*FY	Transition 2 Mathematics	Kaminski, Jerzy		2020	M	Caucasian	Caucasian	LO
320	17FA	MAT*22T	MAT*22T*AT	Transition 2 Mathematics	Coogan, Gwyn		2020	F	White - Middle East	White - Middle East	LO
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4 demographics: Class, Gender ID, Race, Admit Status

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293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
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296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave		2019	F	Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	F	Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose		2019	F	Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR
306	17FA	MAT*13T	MAT*13T*AT	Transition 1 Mathematics	Marshall, Laura		2021	M	Hispanic Latino	Hispanic Latino, Amer Indian/Alaskan, Caucasian	JR
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311	17FA	MAT*230	MAT*230*FY	Integrated Mathematics	Feng, Zuming		2020	M	Asian American	Asian American	JR
312	17FA	MAT*420	MAT*420*AT	Calculus *	Hardej, Hobart		2019	F	Asian American	Asian American	JR
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314	17FA	MAT*310	MAT*310*FY1	Adv Integrated Mathematics	Chen, Xitai		2019	M	Caucasian	Caucasian	LO
315	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	M	Caucasian	Caucasian	JR
316	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2021	M	Caucasian	Caucasian	JR
317	17FA	MAT*13T	MAT*13T*BU	Transition 1 Mathematics	Ramesh, Gayatri		2021	F	Other	Other, Caucasian	JR
318	17FA	MAT*220	MAT*220*DW	Integrated Mathematics	Wolfson, Joe		2020	F	Unknown	Unknown	JR
319	17FA	MAT*22T	MAT*22T*FY	Transition 2 Mathematics	Kaminski, Jerzy		2020	M	Caucasian	Caucasian	LO
320	17FA	MAT*22T	MAT*22T*AT	Transition 2 Mathematics	Coogan, Gwyn		2020	F	White - Middle East	White - Middle East	LO
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324	17FA	MAT*21T	MAT*21T*FY	Transition 2 Mathematics	Geer, Panama		2021	F	Asian American	Asian American	JR
325	17FA	MAT*210	MAT*210*EX	Integrated Mathematics	Hew, Brandon		2020	M	Asian American	Asian American	JR
326	17FA	MAT*421	MAT*421*D	Calculus (enriched) *	Bergofsky, Eric		2019	M	Unknown	Unknown, Asian American	JR
327	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian	JR
328	17FA	MAT*220	MAT*220*AT	Integrated Mathematics	Braile, Dale		2020	F	Caucasian	Caucasian	JR
329	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie		2020	M	Hispanic Latino	Hispanic Latino	JR
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331	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Caucasian	Caucasian	JR
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The student lists their
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296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave		2019	F	Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart		2021	F	Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose		2019	F	Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
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302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
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first one becomes
“Primary Race”

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306	17FA	MAT*13T	MAT*13T*AT	Transition 1 Mathematics	Marshall, Laura		2021	M	Hispanic Latino	Hispanic Latino, Amer Indian/Alaskan, Caucasian	JR
307	17FA	MAT*421	MAT*421*E	Calculus (enriched) *	Kaminski, Jerzy		2019	M	Asian American	Asian American	LO
308	17FA	MAT*411	MAT*411*C	Intro Calculus (enriched) *	Molina, Jose		2019	M	Caucasian	Caucasian	JR
309	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Asian American	Asian American	LO
310	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2021	F	Asian American	Asian American	JR
311	17FA	MAT*230	MAT*230*FY	Integrated Mathematics	Feng, Zuming		2020	M	Asian American	Asian American	JR
312	17FA	MAT*420	MAT*420*AT	Calculus *	Hardej, Hobart		2019	F	Asian American	Asian American	JR
313	17FA	MAT*320	MAT*320*A	Adv Integrated Mathematics	Chen, Xitai				Asian American	Asian American	JR
314	17FA	MAT*310	MAT*310*FY1	Adv Integrated Mathematics	Chen, Xitai				Caucasian	Caucasian	LO
315	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Caucasian	Caucasian	JR
316	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale				Caucasian	Caucasian	JR
317	17FA	MAT*13T	MAT*13T*BU	Transition 1 Mathematics	Ramesh, Gayatr				Other	Other, Caucasian	JR
318	17FA	MAT*220	MAT*220*DW	Integrated Mathematics	Wolfson, Joe				Unknown	Unknown	JR
319	17FA	MAT*22T	MAT*22T*FY	Transition 2 Mathematics	Kaminski, Jerzy				Caucasian	Caucasian	LO
320	17FA	MAT*22T	MAT*22T*AT	Transition 2 Mathematics	Coogan, Gwyn		2020	F	White - Middle East	White - Middle East	LO
321	17FA	MAT*12T	MAT*12T*GZ	Transition 1 Mathematics	Halani, Aviva		2021	F	Other	Other, Caucasian	JR
322	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose		2019	F	Caucasian	Caucasian	JR
323	17FA	MAT*230	MAT*230*BU	Integrated Mathematics	Kaminski, Jerzy		2020	M	Unknown	Unknown	JR
324	17FA	MAT*21T	MAT*21T*FY	Transition 2 Mathematics	Geer, Panama		2021	F	Asian American	Asian American	JR
325	17FA	MAT*210	MAT*210*EX	Integrated Mathematics	Hew, Brandon		2020	M	Asian American	Asian American	JR
326	17FA	MAT*421	MAT*421*D	Calculus (enriched) *	Bergofsky, Eric		2019	M	Unknown	Unknown, Asian American	JR
327	17FA	MAT*330	MAT*330*B	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian	JR
328	17FA	MAT*220	MAT*220*AT	Integrated Mathematics	Braile, Dale		2020	F	Caucasian	Caucasian	JR
329	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie		2020	M	Hispanic Latino	Hispanic Latino	JR
330	17FA	MAT*12T	MAT*12T*FY	Transition 1 Mathematics	Spanier, Greg		2021	M	Caucasian	Caucasian	JR
331	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Caucasian	Caucasian	
332	17FA	MAT*23X	MAT*23X*EX	Transition 2 Mathematics	Bartkovich, Kevin		2020	M	Asian American	Asian American	

first one becomes
“Primary Race”

The student
lists their
“Races”

	A	B	C	D	E	F	G	H	I	J	K
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie				Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave				Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose				Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American, Asian	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR

Student Name	Withdrawn?	Class	Gender ID	Primary Race	Races	Admit Status	PR-FA	PR-WI	PR-SP	LO-FA	LO-WI	LO-SP	UP-FA	UP-WI	UP-SP	SE-FA	SE-WI	SE-SP
nan	2019	boy	.White	Caucasian	Prep	13T	130	210	220	230	311	321	401	411	420	430	40S	
nan	2019	boy	Latinx	Hispanic Latino, Caucasian	Prep	21T	23X	311	321	401	411	421	431	511	521	610	620	
nan	2019	boy	Asian	Asian American, Other														
nan	2019	girl	Asian	Asian	Prep	230	310	320	L	nan	nan	330	400	410	420	SA	40S	
nan	2019	girl	Black	African American	Prep	21T	220	230	310	320	330	410	420	430	SA	40D	40S	

How it's going

Diana Davis / PEA

	A	B	C	D	E	F	G	H	I	J	K
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie				Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave				Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose				Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American, Asian	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR

Student Name	Withdrawn?	Class	Gender ID	Primary Race	Races	Admit Status	PR-FA	PR-WI	PR-SP	LO-FA	LO-WI	LO-SP	UP-FA	UP-WI	UP-SP	SE-FA	SE-WI	SE-SP
nan	2019	boy	.White	Caucasian	Prep	13T	130	210	220	230	311	321	401	411	420	430	40S	
nan	2019	boy	Latinx	Hispanic Latino, Caucasian	Prep	21T	23X	311	321	401	411	421	431	511	521	610	620	
nan	2019	boy	Asian	Asian American, Other	Asian American	321	401	411	421	431	511	521	nan	nan	40S			
nan	2019	girl	Asian	Asian	Prep	230	310	320	L	nan	nan	330	400	410	420	SA	40S	
nan	2019	girl	Black	African American	Prep	21T	220	230	310	320	330	410	420	430	SA	40D	40S	

How it started

Demographics

Courses

How it's going

A	B	C	D	E	F	G	H	I	J	K	
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie				Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave				Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose				Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	As		LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	As		UP
302			cs	Braile, Dale			2019	F	Ca		LO
303			cs	Whittemore, Tim			2019	M	Af		JR
304			cs	Hew, Brandon			2019	F	Af		JR
305				Mosley, John			2021	M	Caucasian		JR

We exclude students who withdrew.

How it started

One class per student per term

Student Name	Withdrawn?	Class	Gender ID	Primary Race	Races	Admit Status	PR-FA	PR-WI	PR-SP	LO-FA	LO-WI	LO-SP	UP-FA	UP-WI	UP-SP	SE-FA	SE-WI	SE-SP	
nan		2019	boy	.White	Caucasian	Prep	13T	130	210	220	230	311	321	401	411	420	430	40S	
nan		2019	boy	Latinx	Hispanic Latino, Caucasian	Prep	21T	23X	311	321	401	411	421	431	511	521	610	620	
nan		2019	boy	Asian	Asian American, Other					321	401	411	421	431	511	521	nan	nan	40S
nan		2019	girl	Asian	Asian	Prep	230	310	320	L	nan	nan	330	400	410	420	SA	40S	
nan		2019	girl	Black	African American	Prep	21T	220	230	310	320	330	410	420	430	SA	40D	40S	

How it's going

A	B	C	D	E	F	G	H	I	J	K								
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status							
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR							
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR							
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR							
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR							
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie				Caucasian	Caucasian	JR							
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave				Caucasian	Caucasian	LO							
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Multi Racial	Multi Racial	JR							
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose				Black	Black	JR							
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR							
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American, Asian	LO							
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP							
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO							
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR							
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR							
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR							
Student Name	Withdrawn?	Class	Gender ID	Primary Race	Races	Admit Status	PR-FA	PR-WI	PR-SP	LO-FA	LO-WI	LO-SP	UP-FA	UP-WI	UP-SP	SE-FA	SE-WI	SE-SP
nan		2019	boy	.White	Caucasian	Prep	13T	130	210	220	230	311	321	401	411	420	430	40S
nan		2019	boy	Latinx	Hispanic Latino, Caucasian	Prep	21T	23X	311	321	401	411	421	431	511	521	610	620
nan		2019	boy	Asian	Asian American, Other				321	401	411	421	431	511	521	nan	nan	40S
nan		2019	girl	Asian	Asian	Prep	230	310	320	L	nan	nan	330	400	410	420	SA	40S
nan		2019	girl	Black	African American	Prep	21T	220	230	310	320	330	410	420	430	SA	40D	40S
How it started												Diana Davis / PEA						

A	B	C	D	E	F	G	H	I	J	K	
1	Term	Course	Course Section	Course Title	Teacher Name	Student Name	Class	Gender ID	Primary Race	Races	Admit Status
291	17FA	MAT*410	MAT*410*DW	Intro Calculus *	Garvey, Dan		2019	M	Caucasian	Caucasian	JR
292	17FA	MAT*400	MAT*400*E	Adv Integrated Mathematics	Seidenberg, Tom		2019	M	Caucasian	Caucasian, Other	JR
293	17FA	MAT*21T	MAT*21T*DW	Transition 2 Mathematics	Spanier, Greg		2021	F	Other	Other, Caucasian	JR
294	17FA	MAT*321	MAT*321*C	Adv Enrich Integrated Math	Spanier, Greg		2020	M	Caucasian	Caucasian	JR
295	17FA	MAT*321	MAT*321*A	Adv Enrich Integrated Math	Girard, Stephanie				Caucasian	Caucasian	JR
296	17FA	MAT*320	MAT*320*C1	Adv Integrated Mathematics	Huoppi, Dave				Caucasian	Caucasian	LO
297	17FA	MAT*12T	MAT*12T*BU	Transition 1 Mathematics	Hardej, Hobart				Multi Racial	Multi Racial	JR
298	17FA	MAT*310	MAT*310*AT	Adv Integrated Mathematics	Molina, Jose				Black	Black	JR
299	17FA	MAT*11T	MAT*11T*FY	Transition 1 Mathematics	Wolfson, Joe		2021	M	Black	Black	JR
300	17FA	MAT*23X	MAT*23X*BU	Transition 2 Mathematics	Braile, Dale		2020	F	Asian American	Asian American, Asian	LO
301	17FA	MAT*31T	MAT*31T*BU	Transition 3 Mathematics	Wolfson, Joe		2019	M	Asian American	Asian American	UP
302	17FA	MAT*320	MAT*320*E	Adv Integrated Mathematics	Braile, Dale		2019	F	Caucasian	Caucasian	LO
303	17FA	MAT*320	MAT*320*F	Adv Integrated Mathematics	Whittemore, Tim		2019	M	African American	African American	JR
304	17FA	MAT*310	MAT*310*HQ	Adv Integrated Mathematics	Hew, Brandon		2019	F	African American	African American	JR
305	17FA	MAT*21T	MAT*21T*GZ	Transition 2 Mathematics	Mosley, John		2021	M	Caucasian	Caucasian	JR

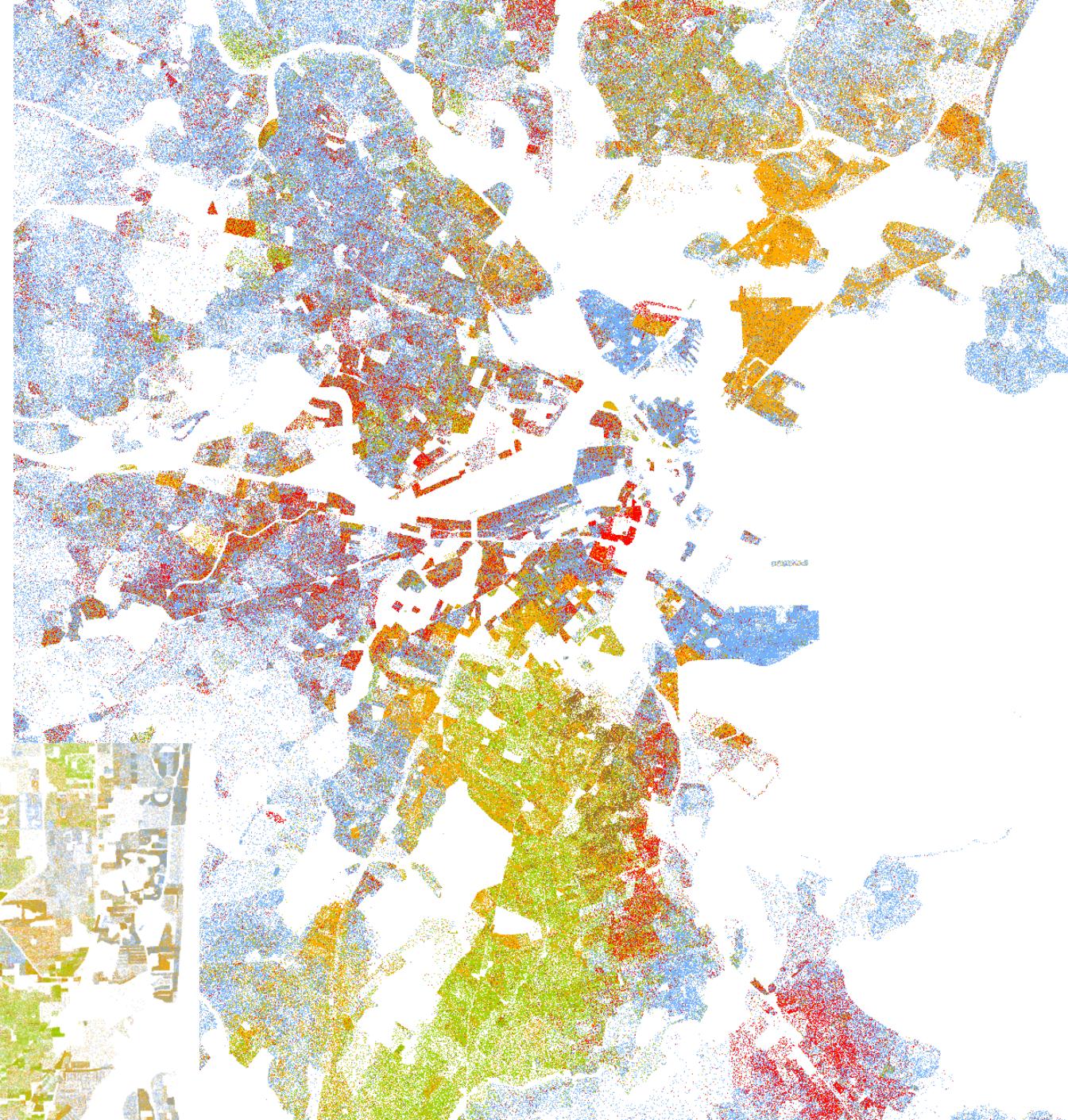
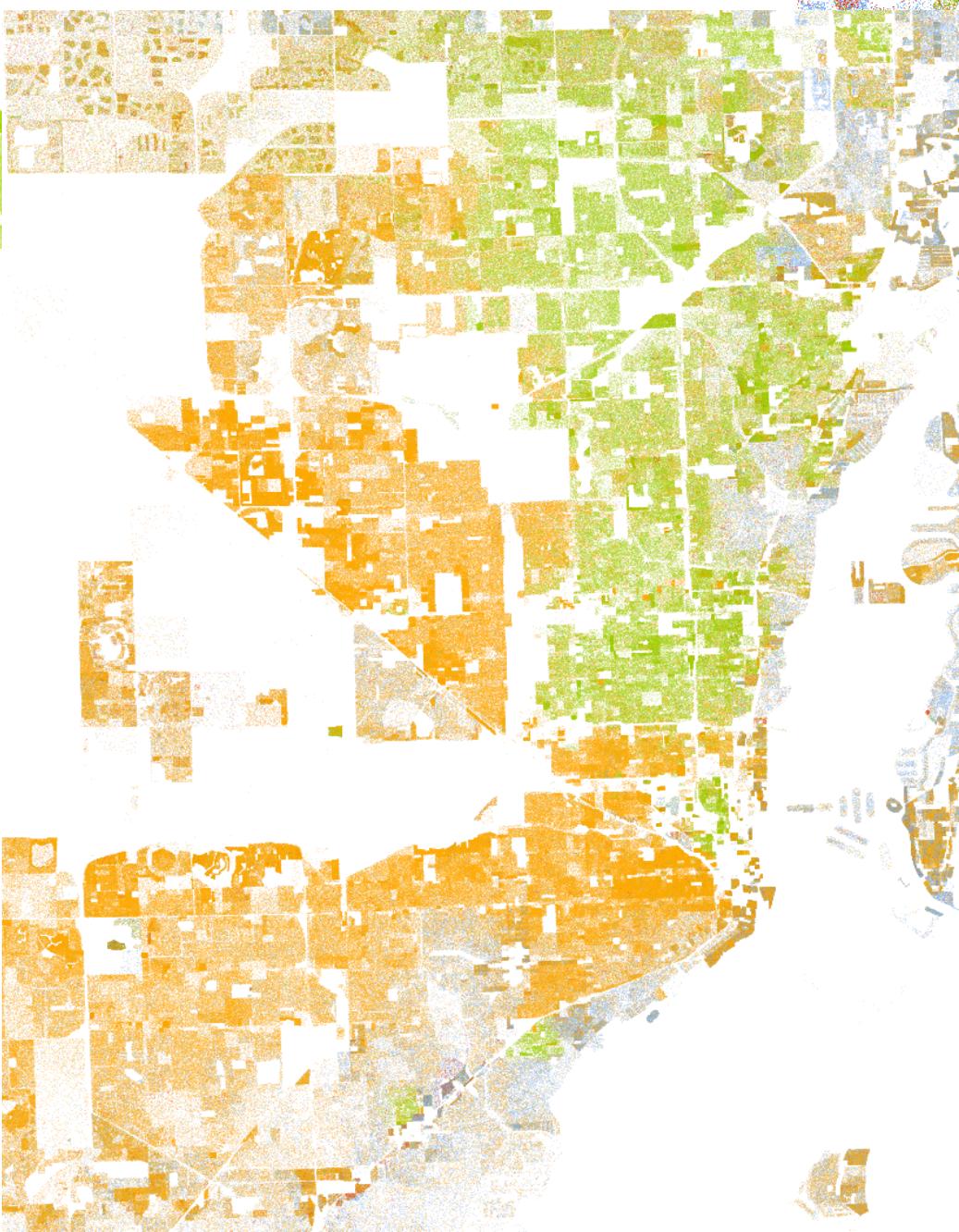
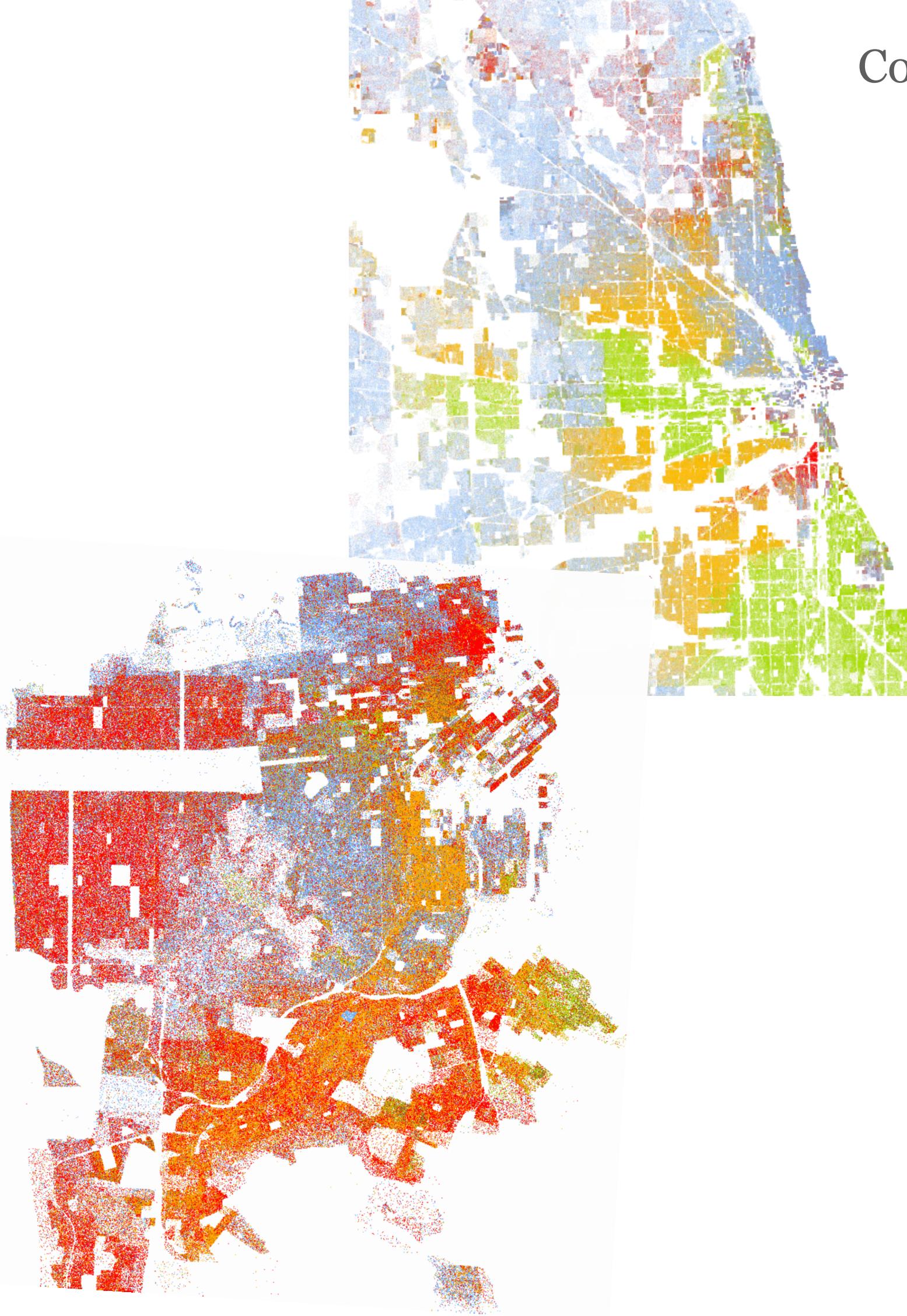
Student Name	Withdrawn?	Class	Gender ID	Primary Race	Races	Admit Status	PR-FA	PR-WI	PR-SP	LO-FA	LO-WI	LO-SP	UP-FA	UP-WI	UP-SP	SE-FA	SE-WI	SE-SP
nan		2019	boy	.White	Caucasian	Prep	13T	130	210	220	230	311	321	401	411	420	430	40S
nan		2019	boy	Latinx	Hispanic Latino, Caucasian	Prep	21T	23X	311	321	401	411	421	431	511	521	610	620
nan		2019	boy	Asian	Asian American, Other													
nan		2019	girl	Asian	Asian	Prep												
nan		2019	girl	Black	African American	Prep	21T	220	230	310	320	330	410	420	430	SA	40D	40S

How it's going

Diana Davis / PEA

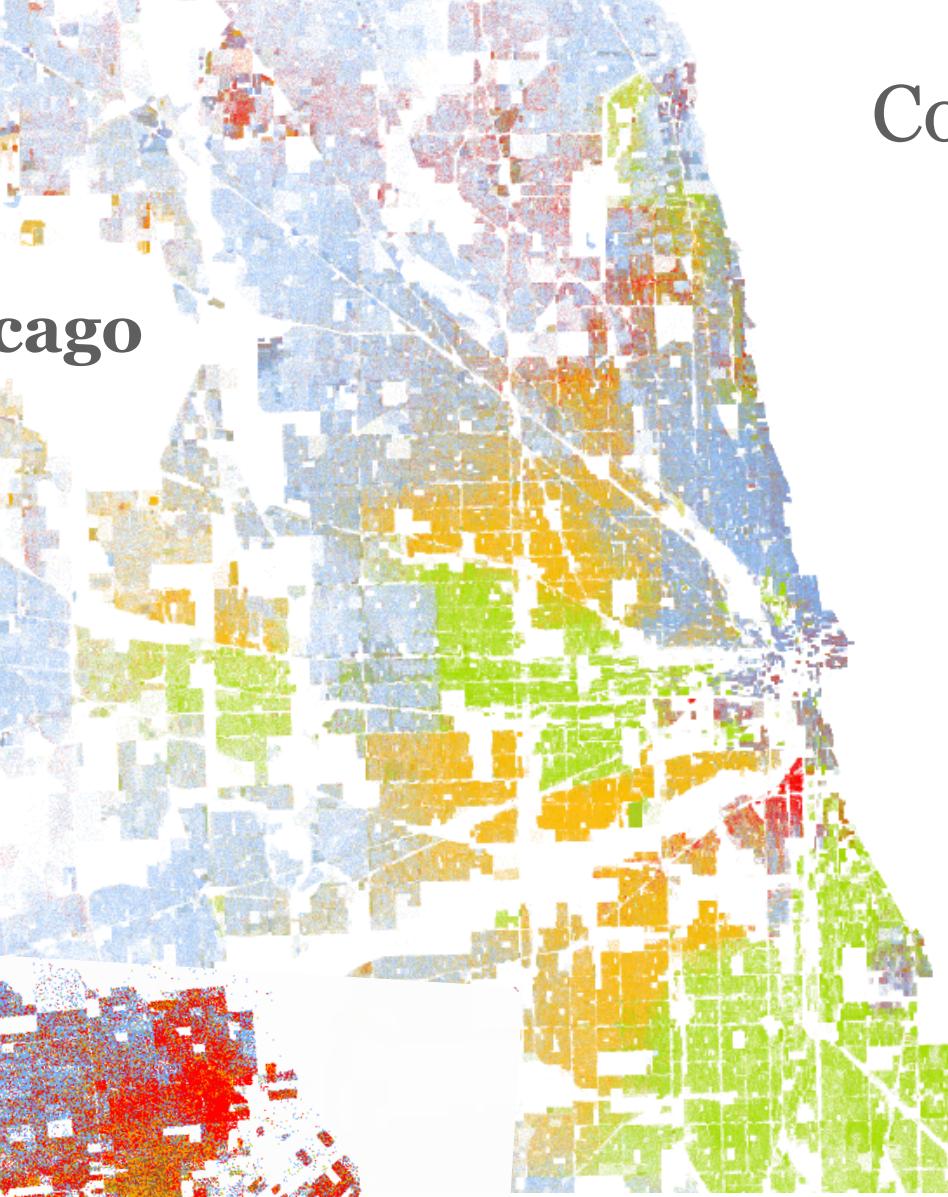
Color coding system: Racial Dot Map

- White
- Black
- Asian
- Hispanic
- Other Race / Native American / Multi-racial



Color coding system: Racial Dot Map

Chicago

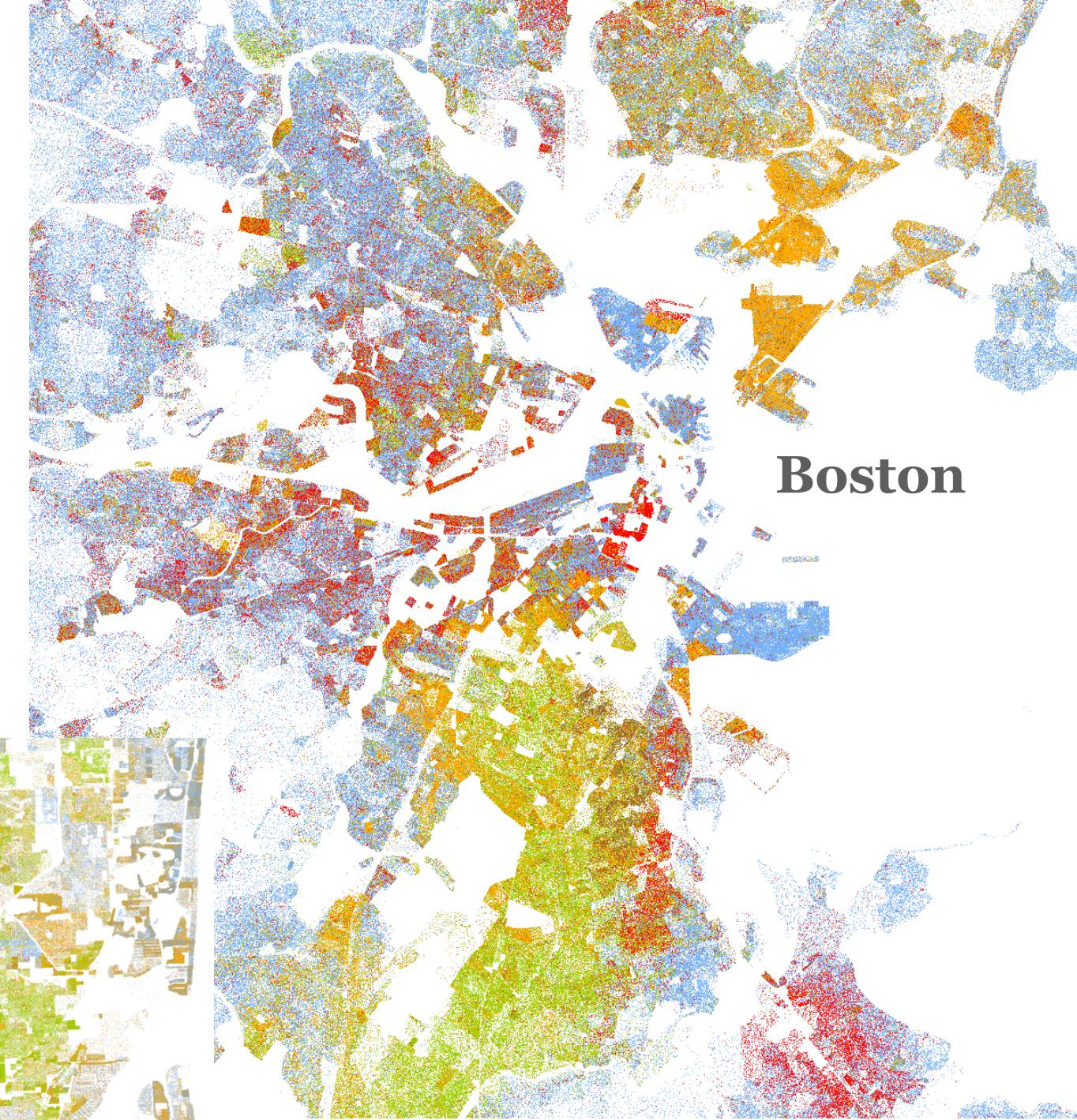
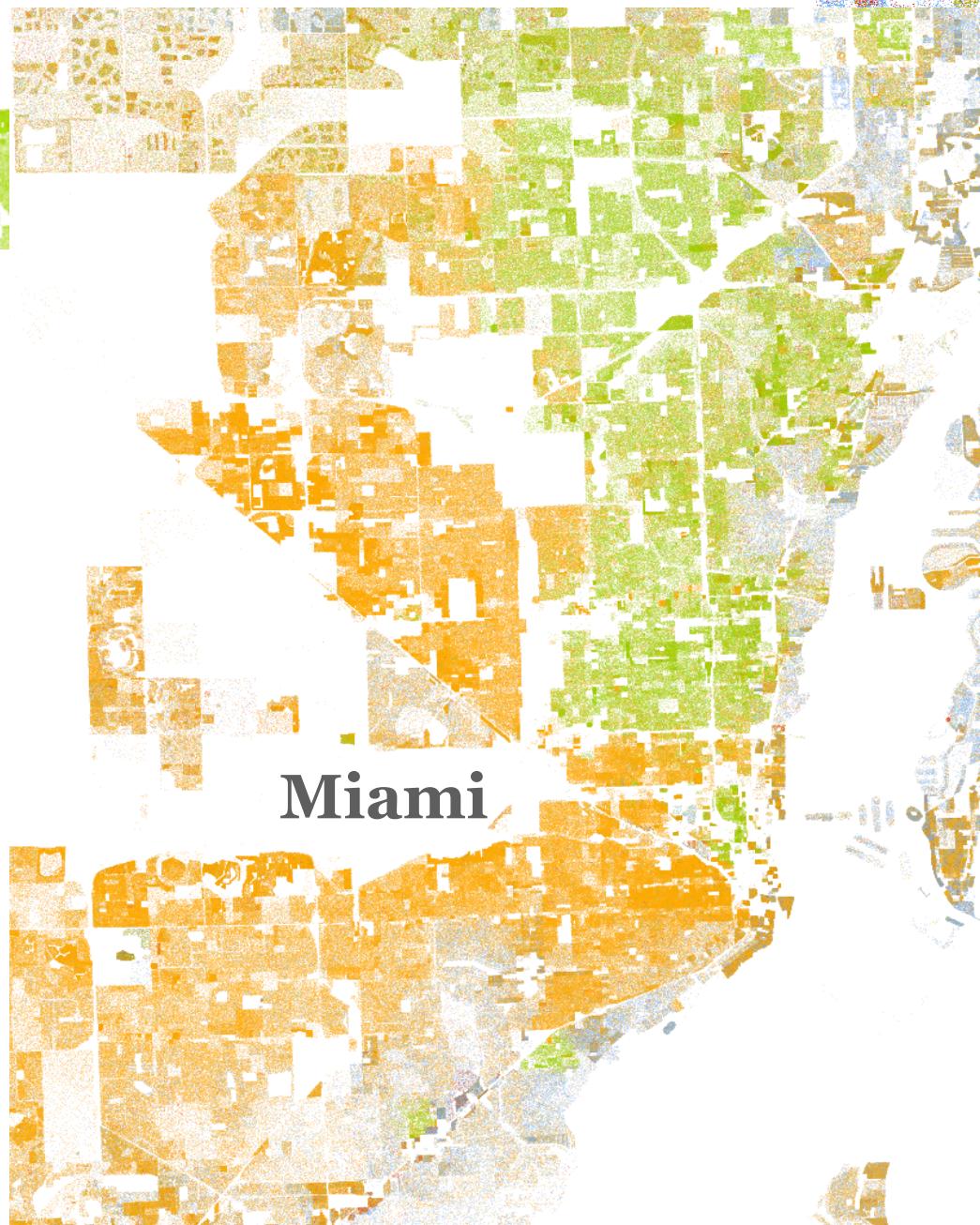


- White
- Black
- Asian
- Hispanic
- Other Race / Native American / Multi-racial

San Francisco

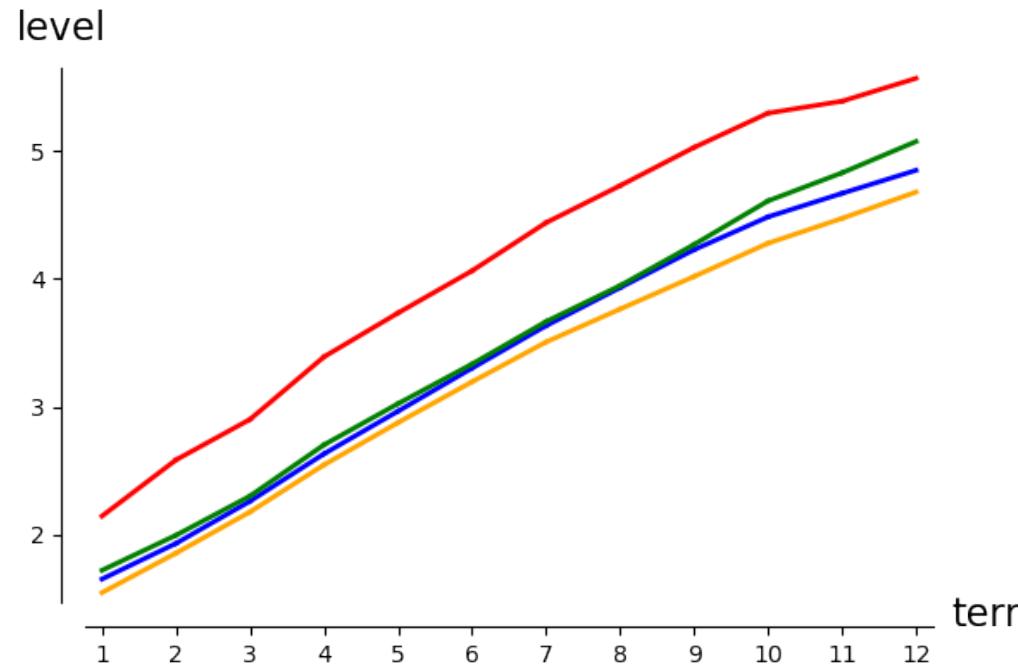


Miami

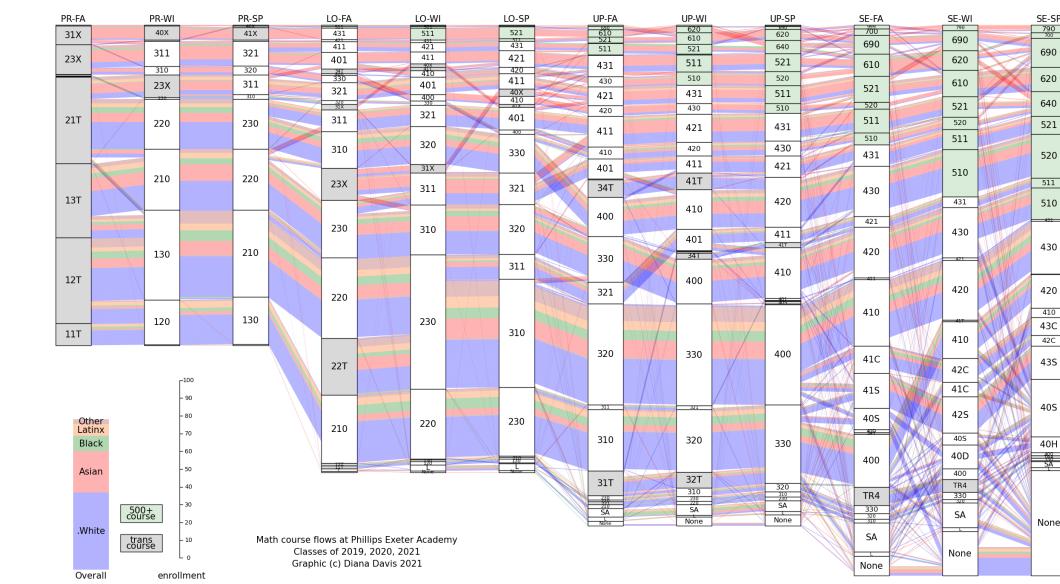


Looking at the data from three perspectives:

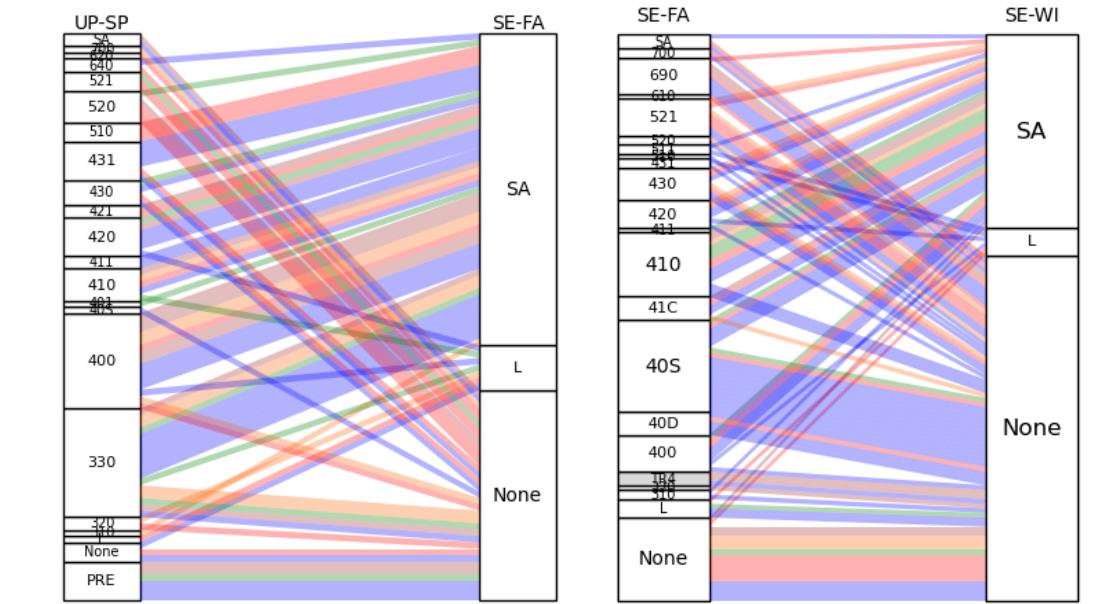
Part I: averages



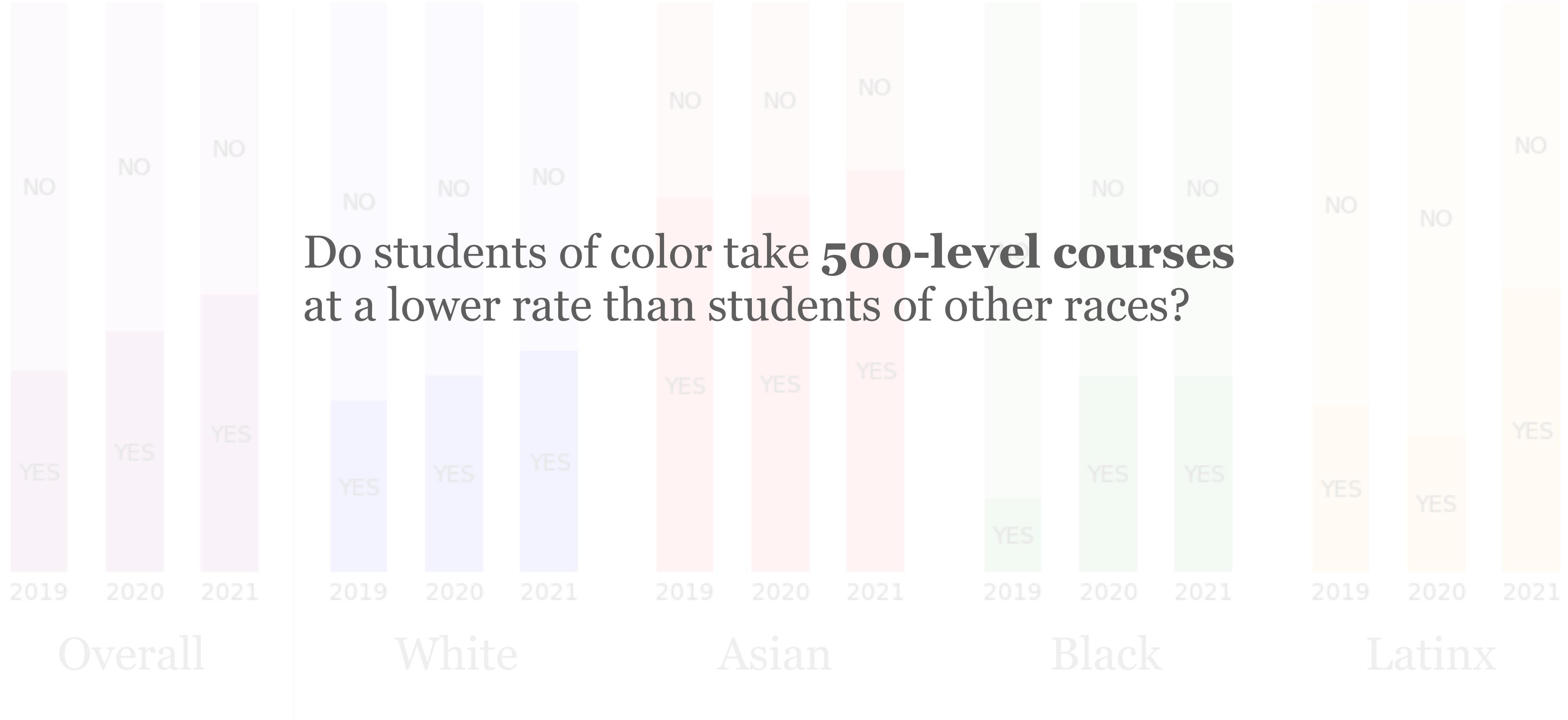
Part II: all the data



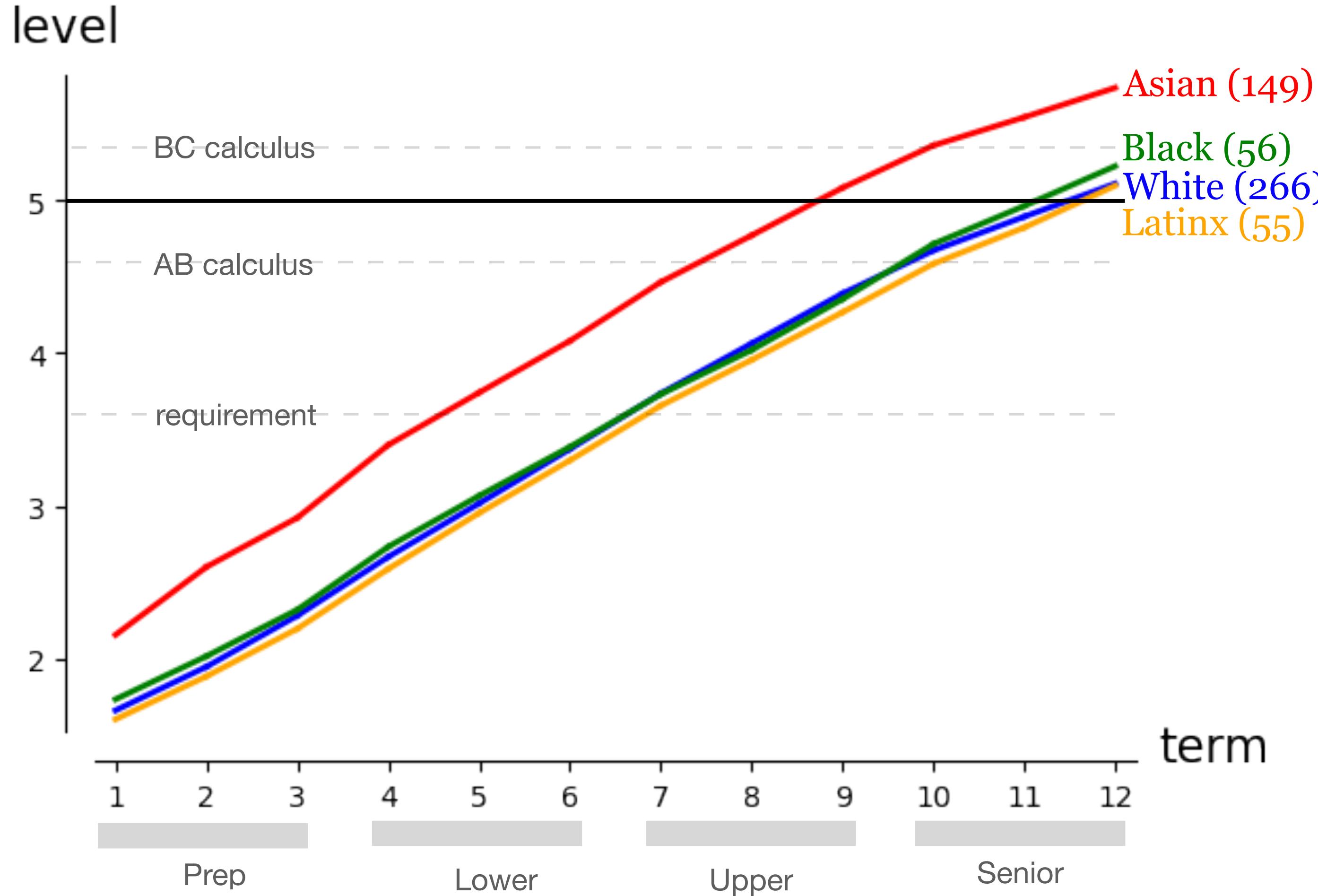
Part III: zooming in



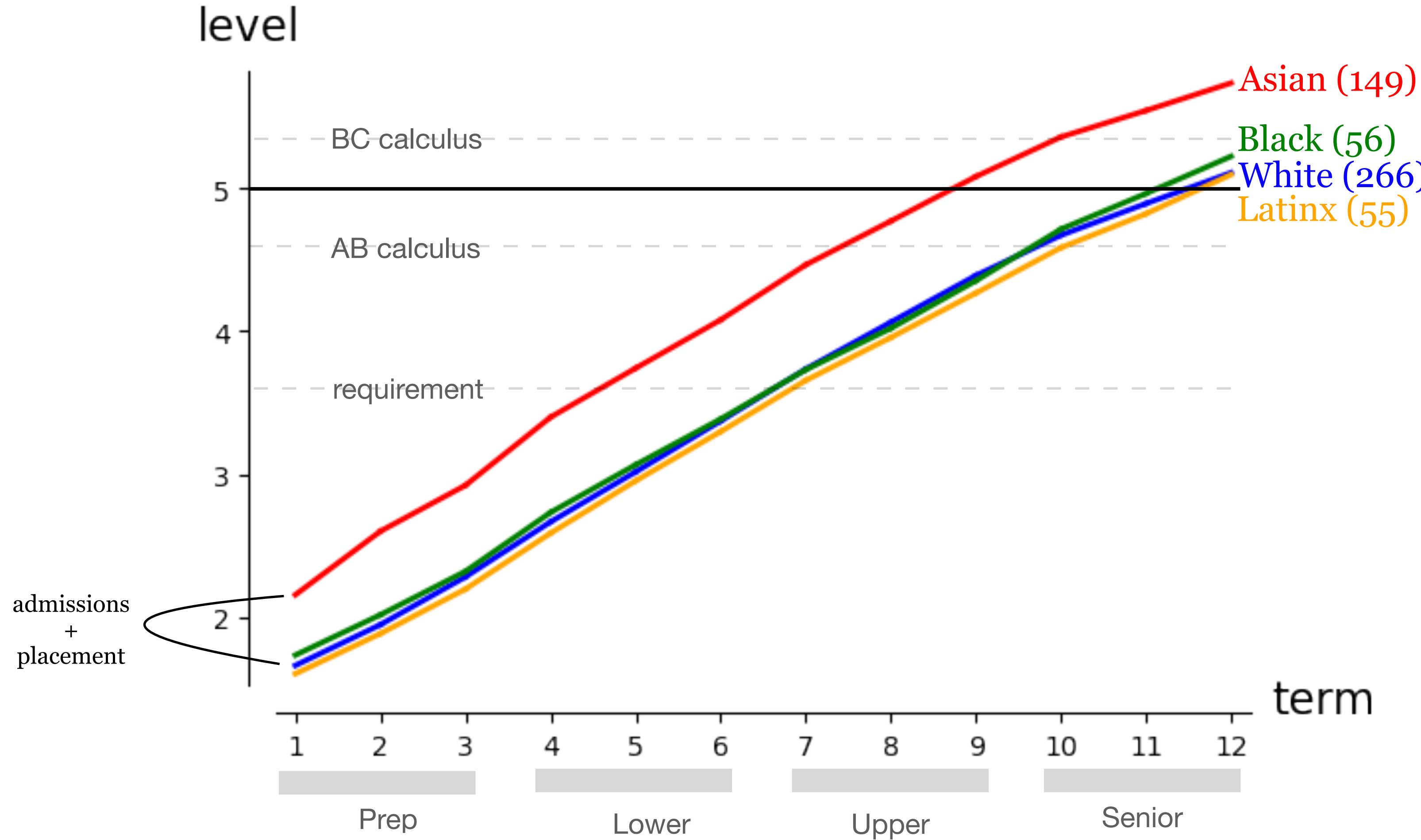
Did you take *Part I: averages* math?



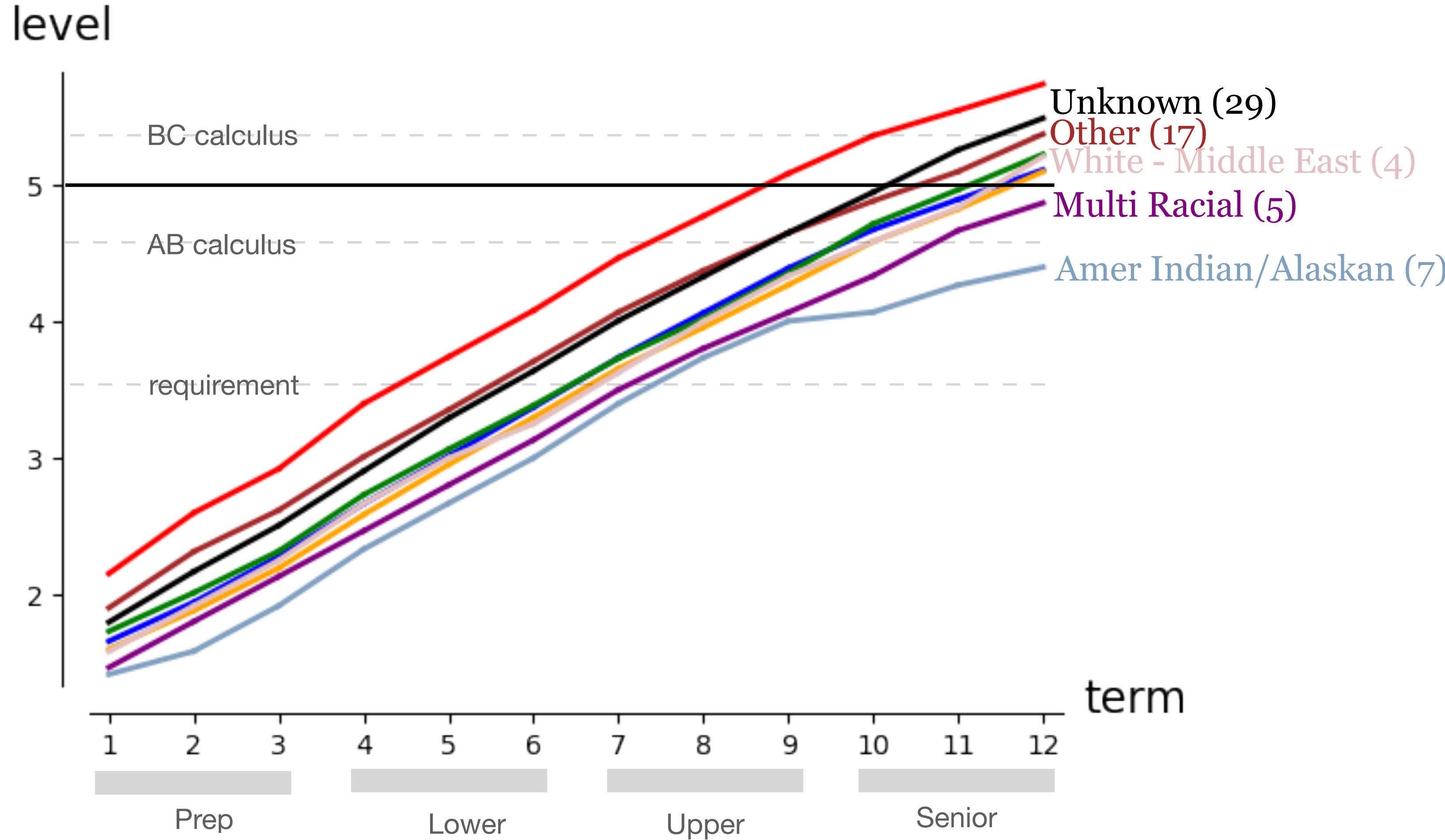
Highest math taken so far: Primary Race



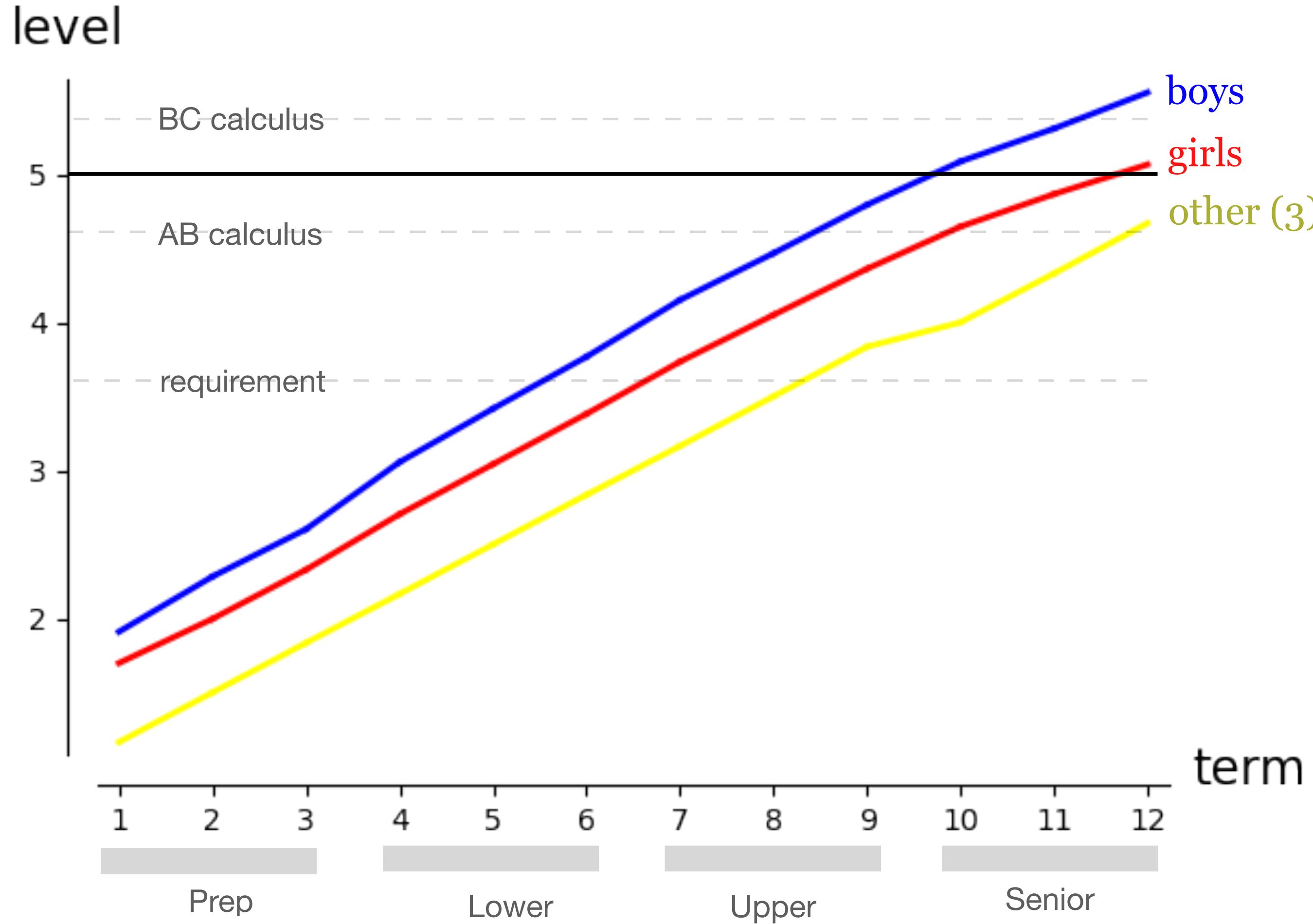
Highest math taken so far: Primary Race



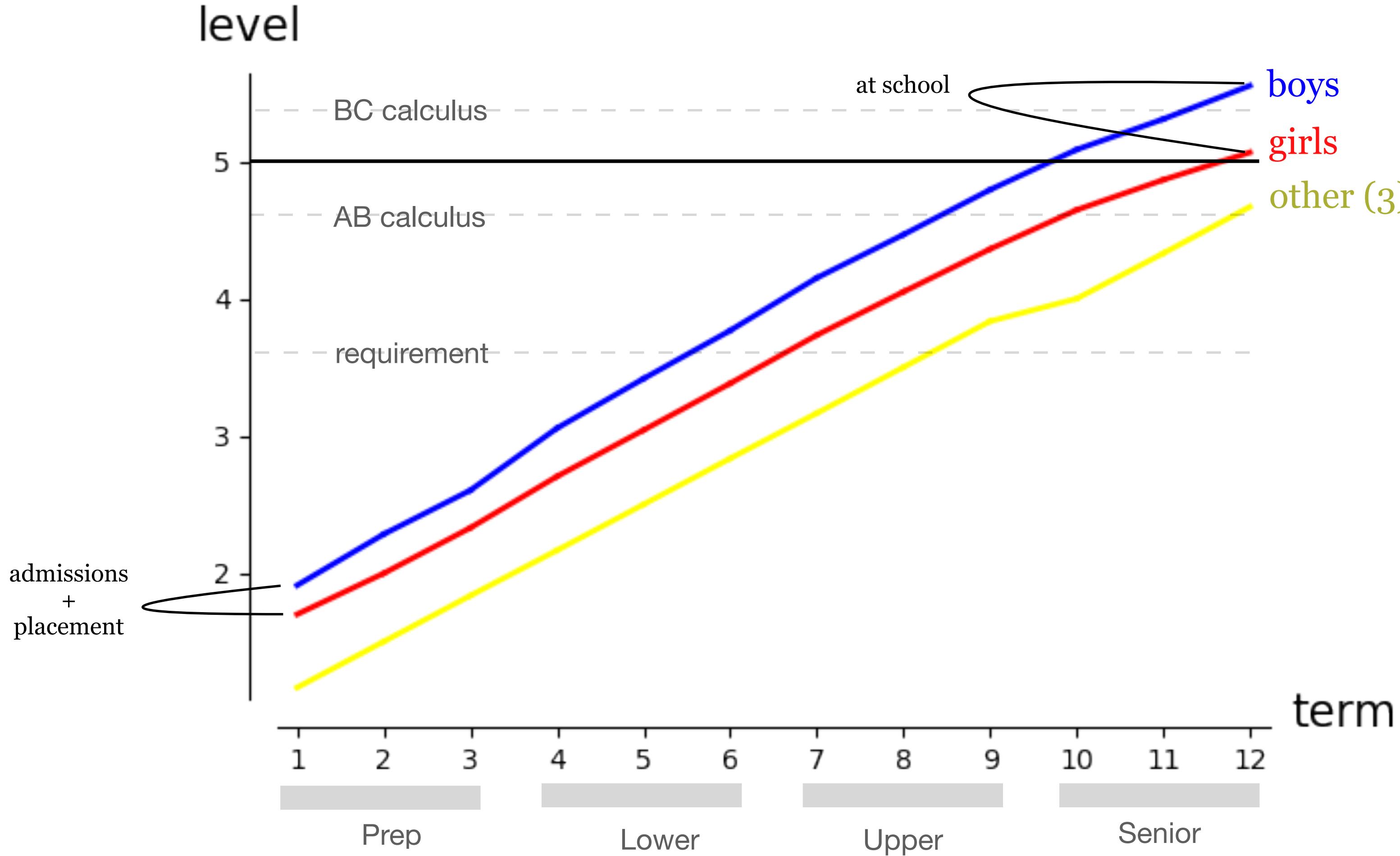
Highest math taken so far: Primary Race



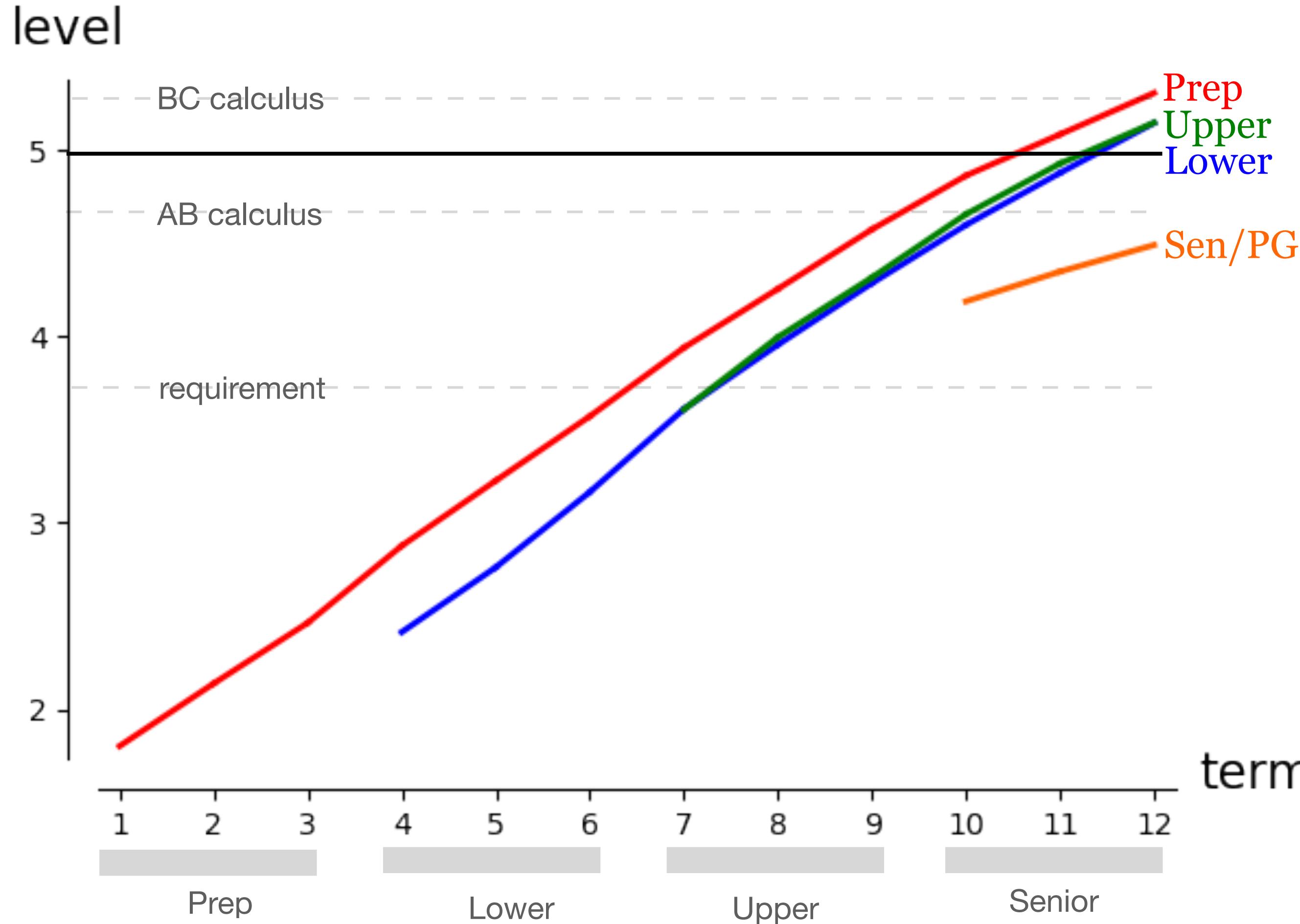
Highest math taken so far: Gender ID



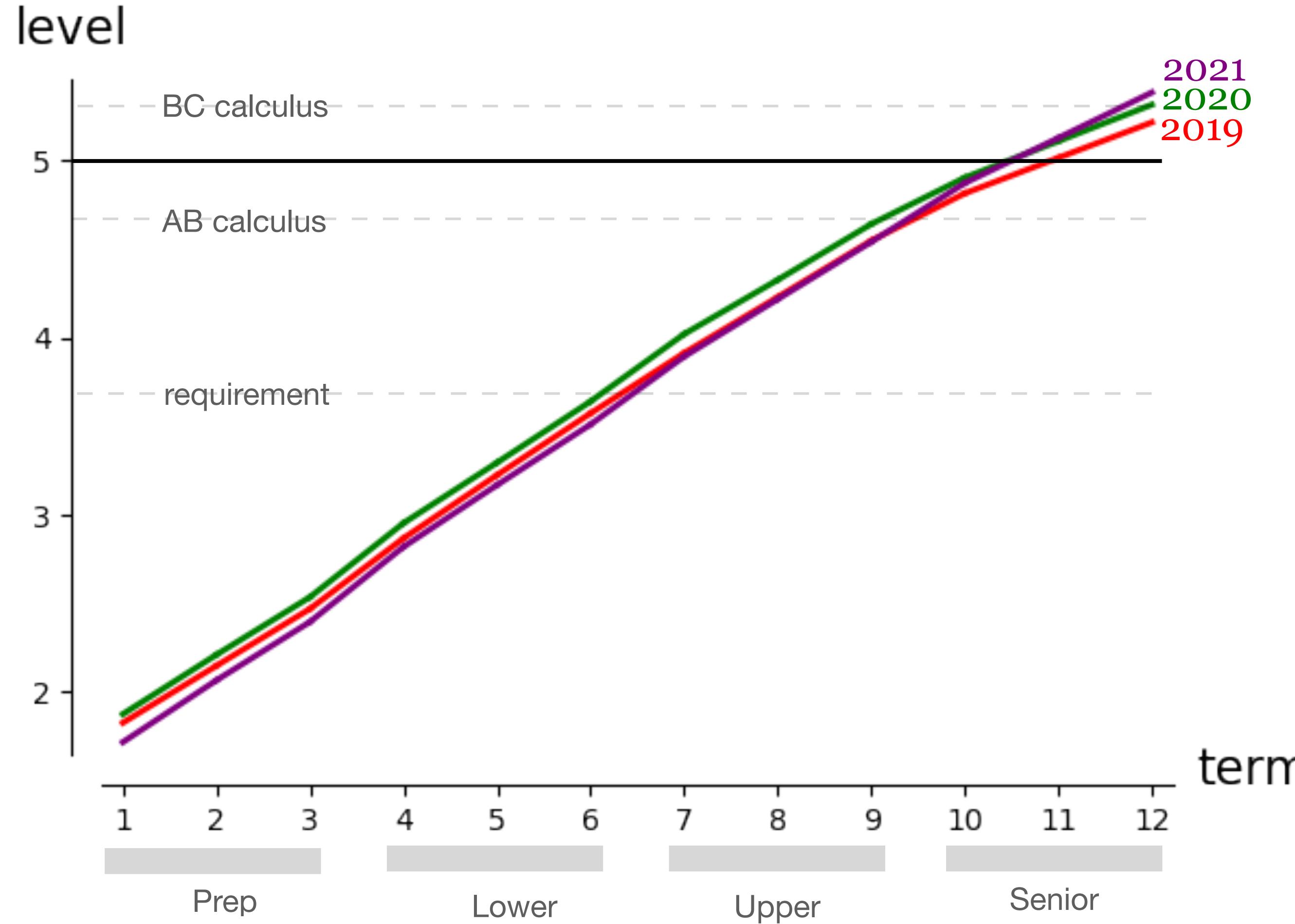
Highest math taken so far: Gender ID



Highest math taken so far: Admit Status

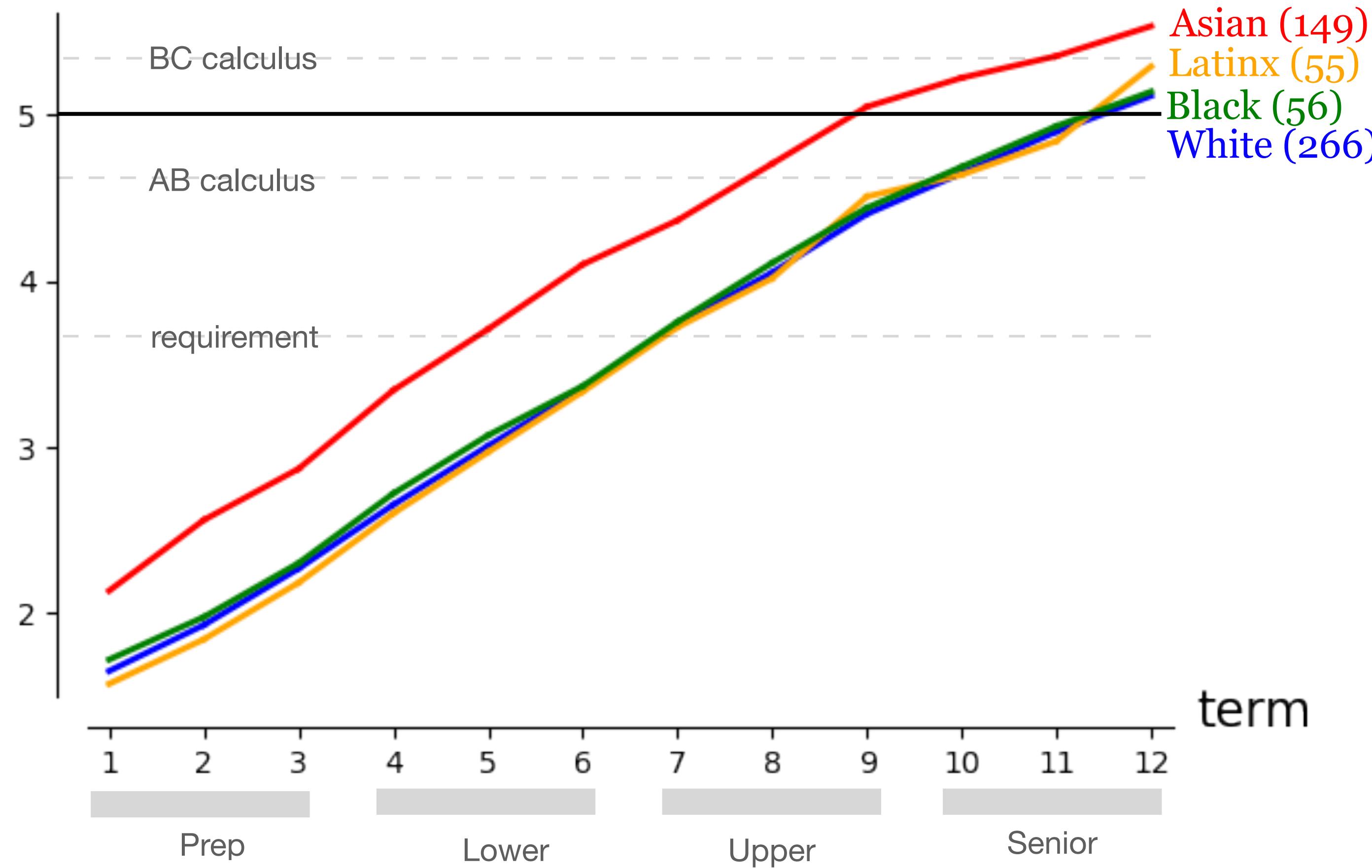


Highest math taken so far: Class



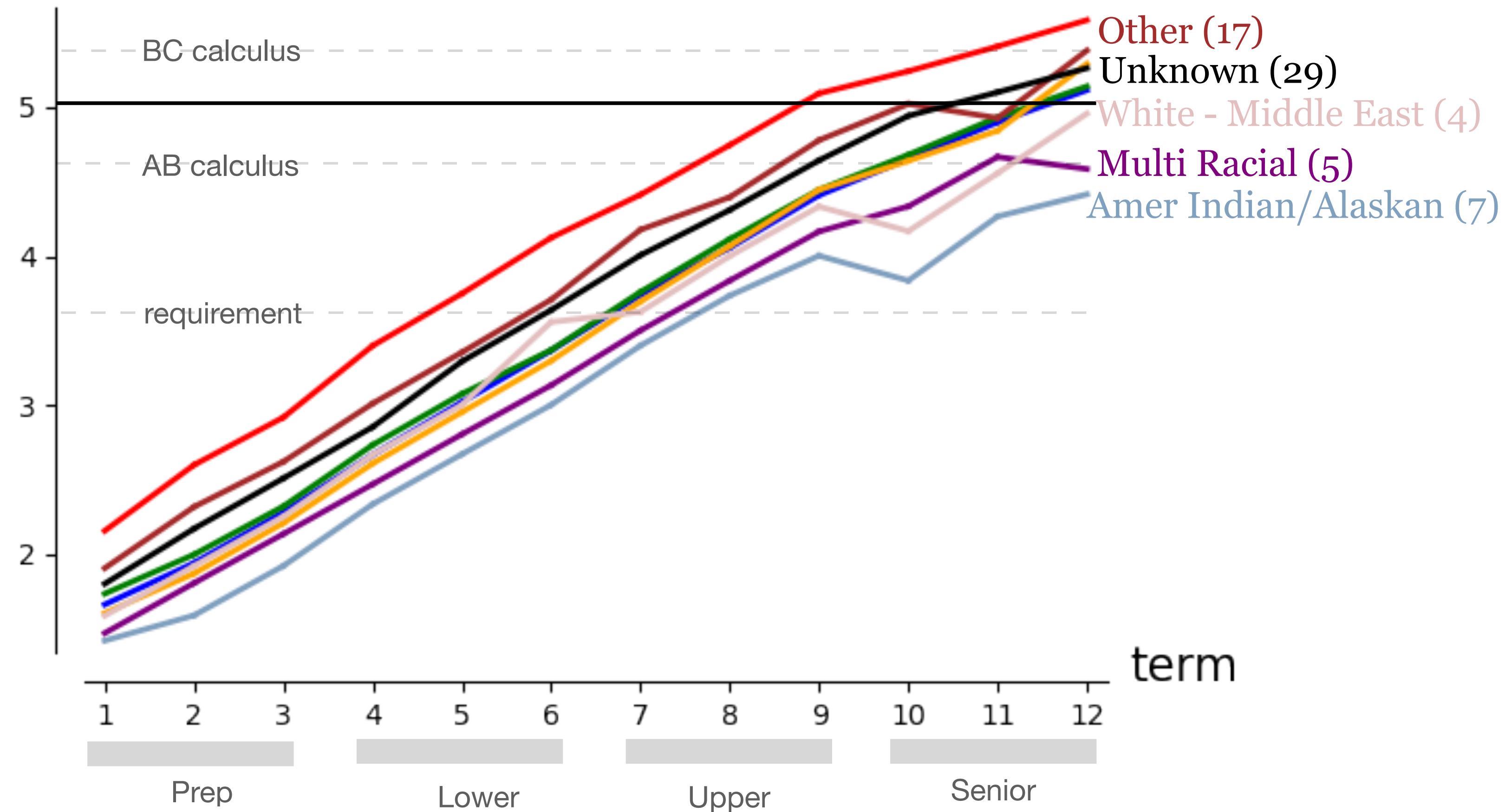
Current level of math (4-year students taking math)

level

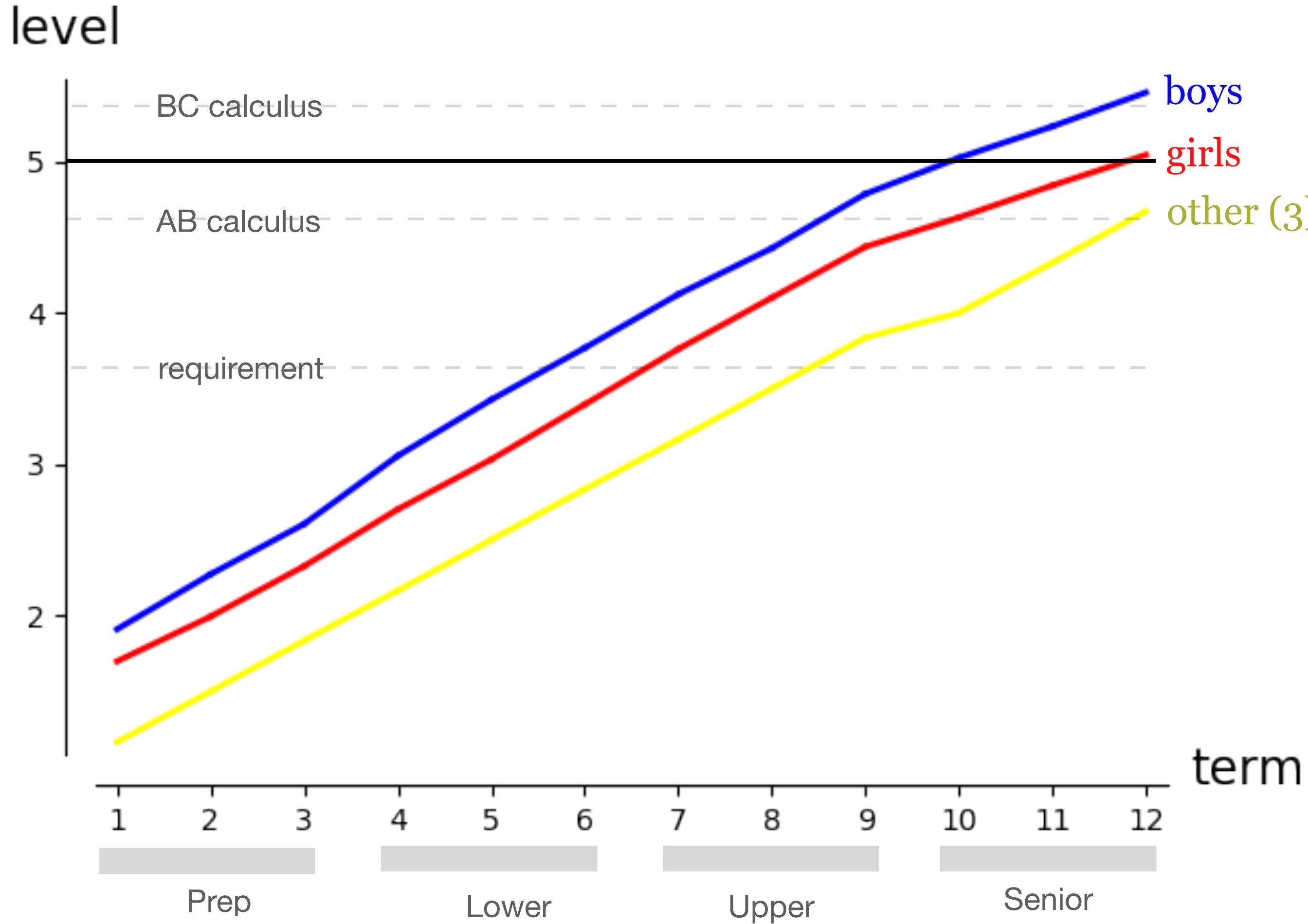


Current level of math (4-year students taking math)

level

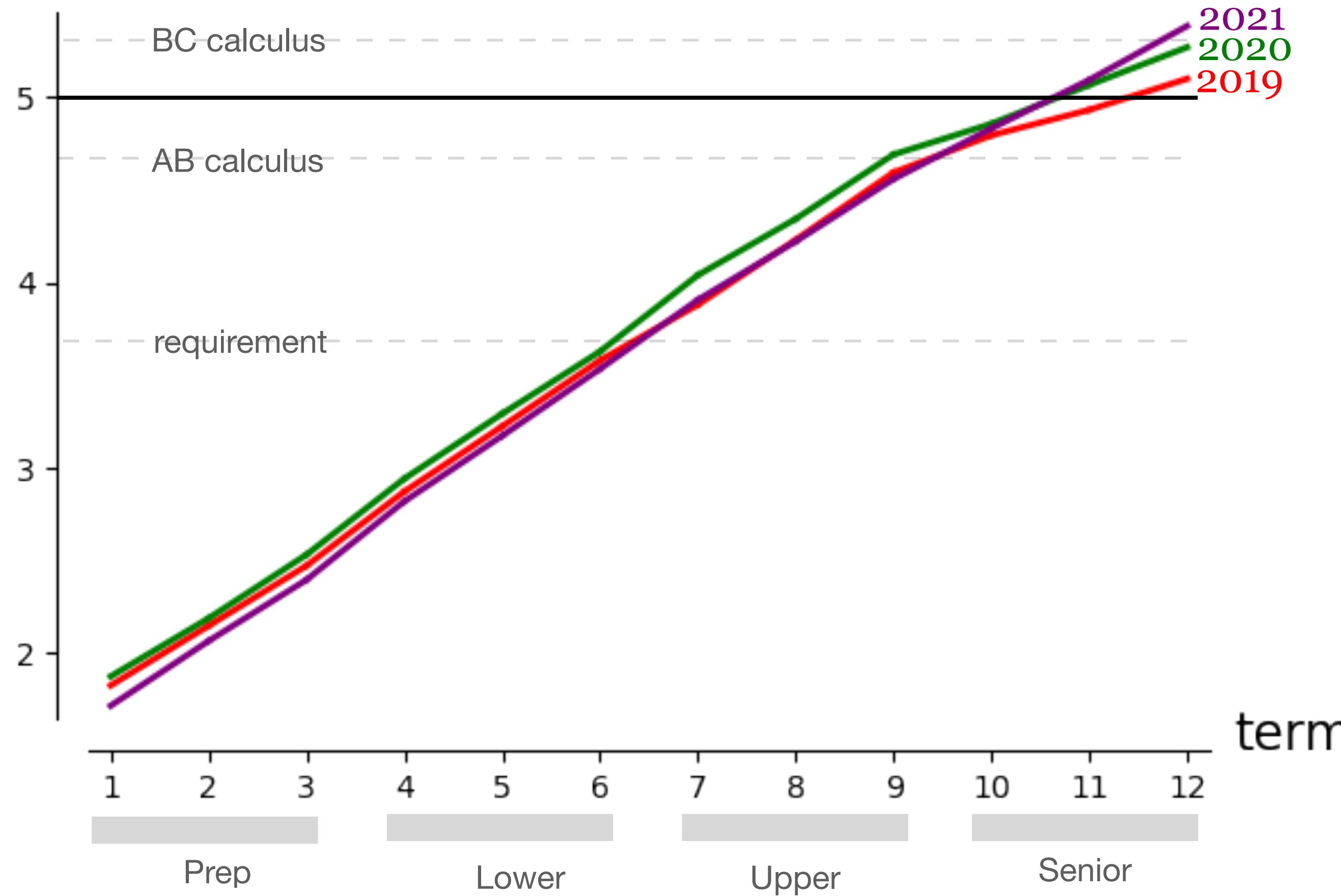


Current level of math (4-year students taking math)

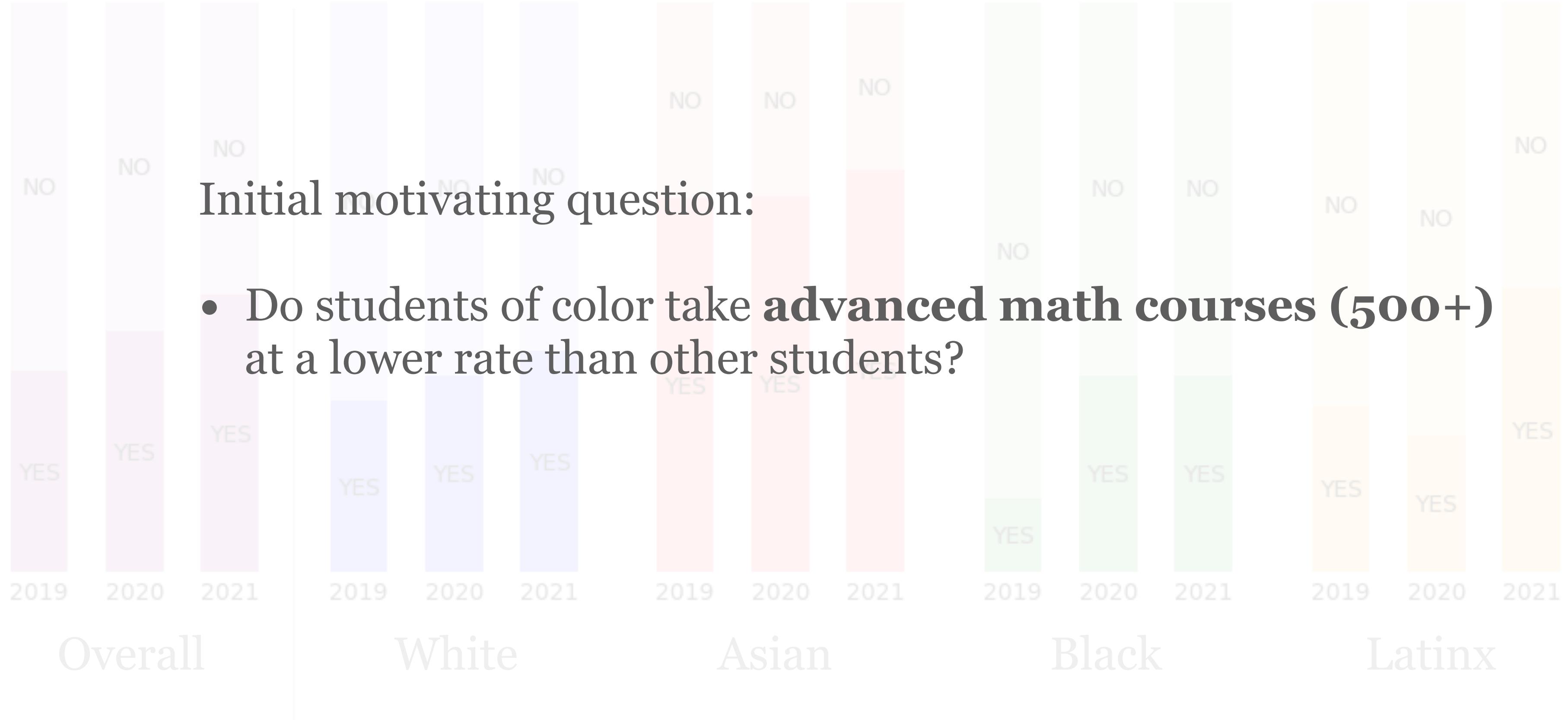


Current level of math (4-year students taking math)

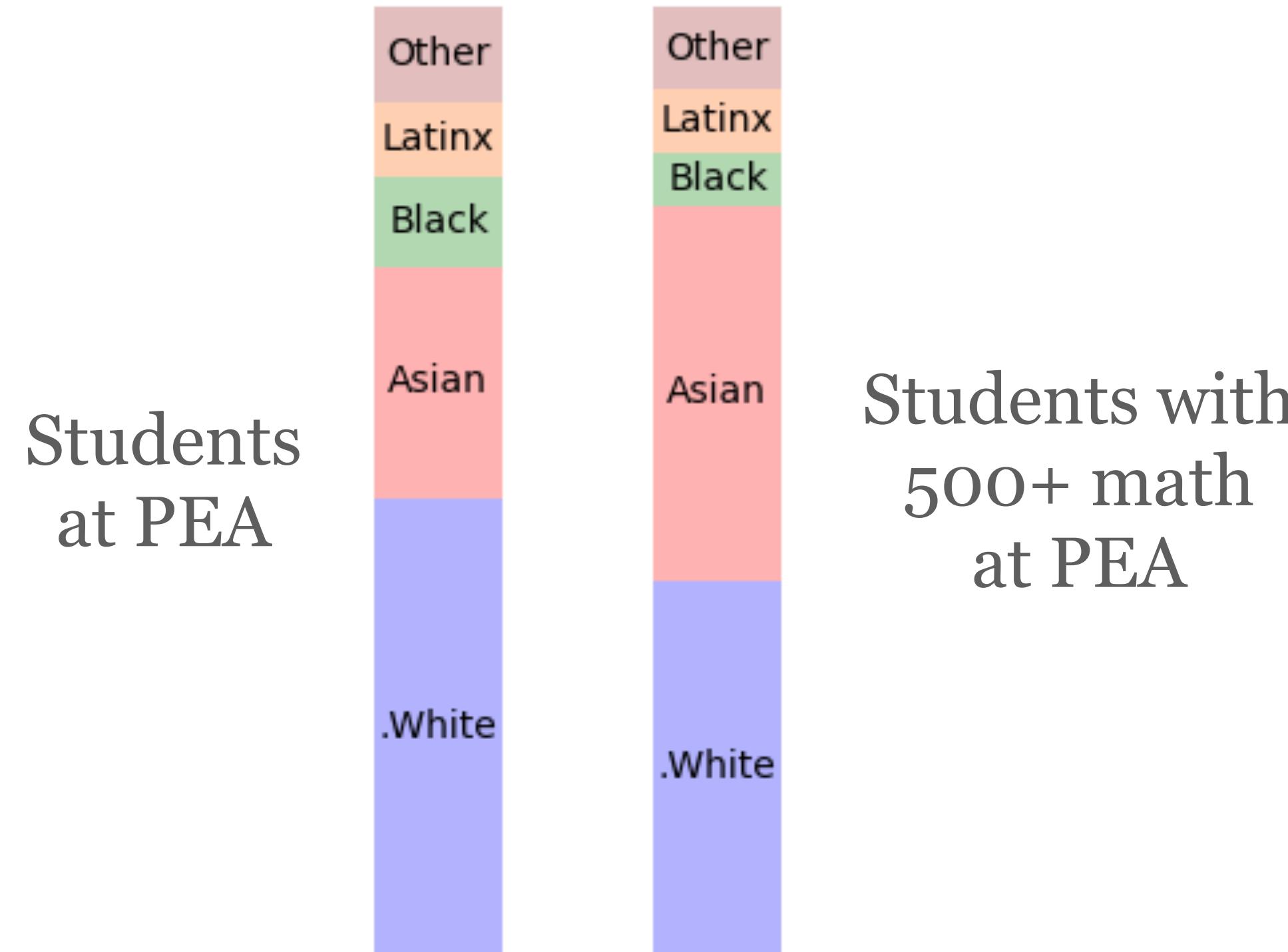
level



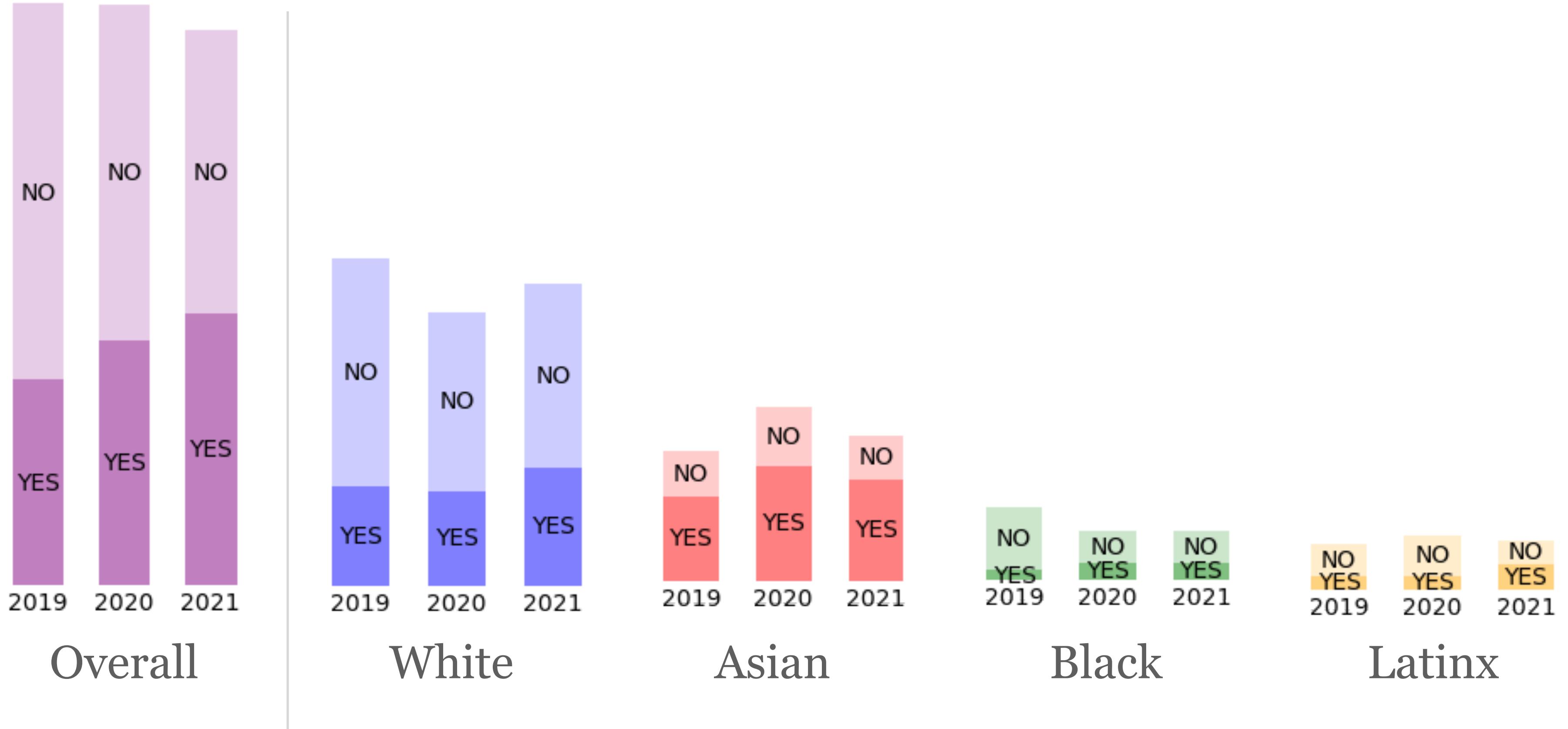
Did you take advanced math?



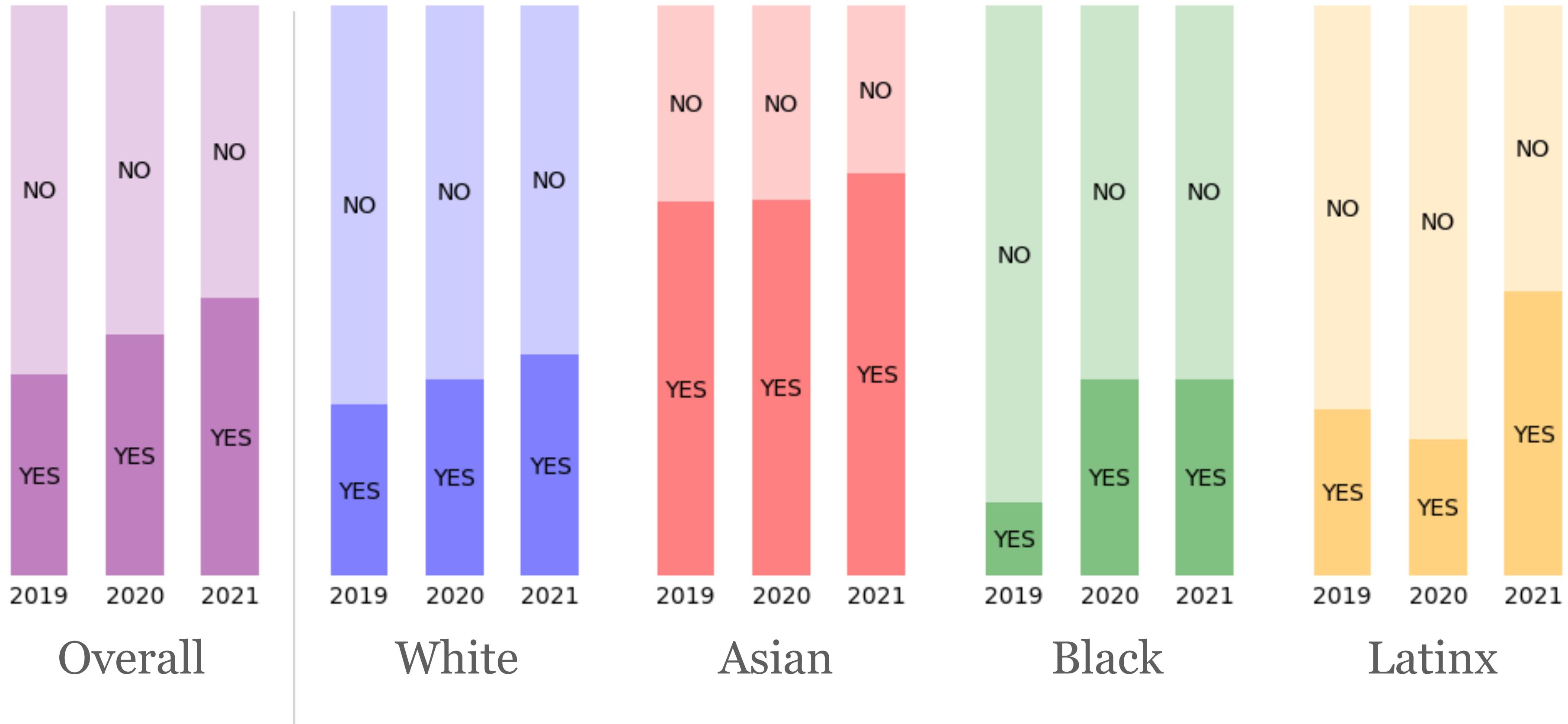
Who takes advanced math?



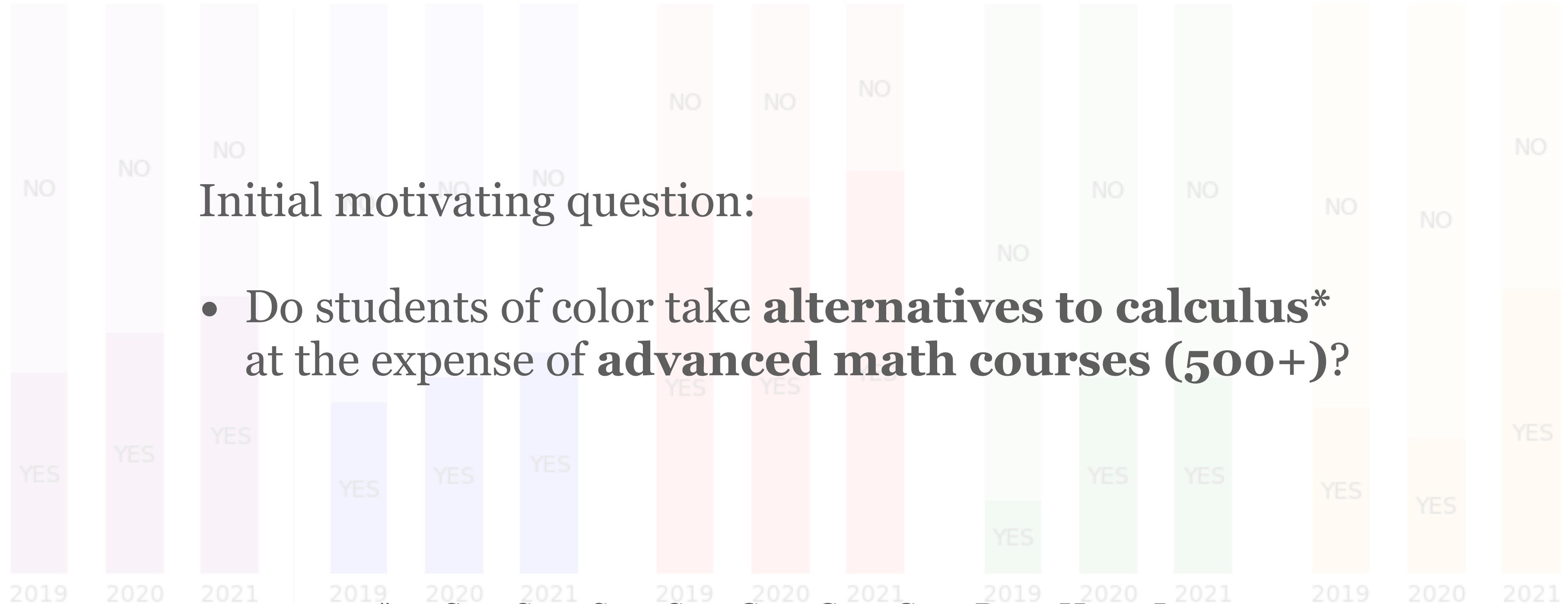
Number of students who took 500+ level math



Percentage of students who took 500+ level math



Did you take advanced math?



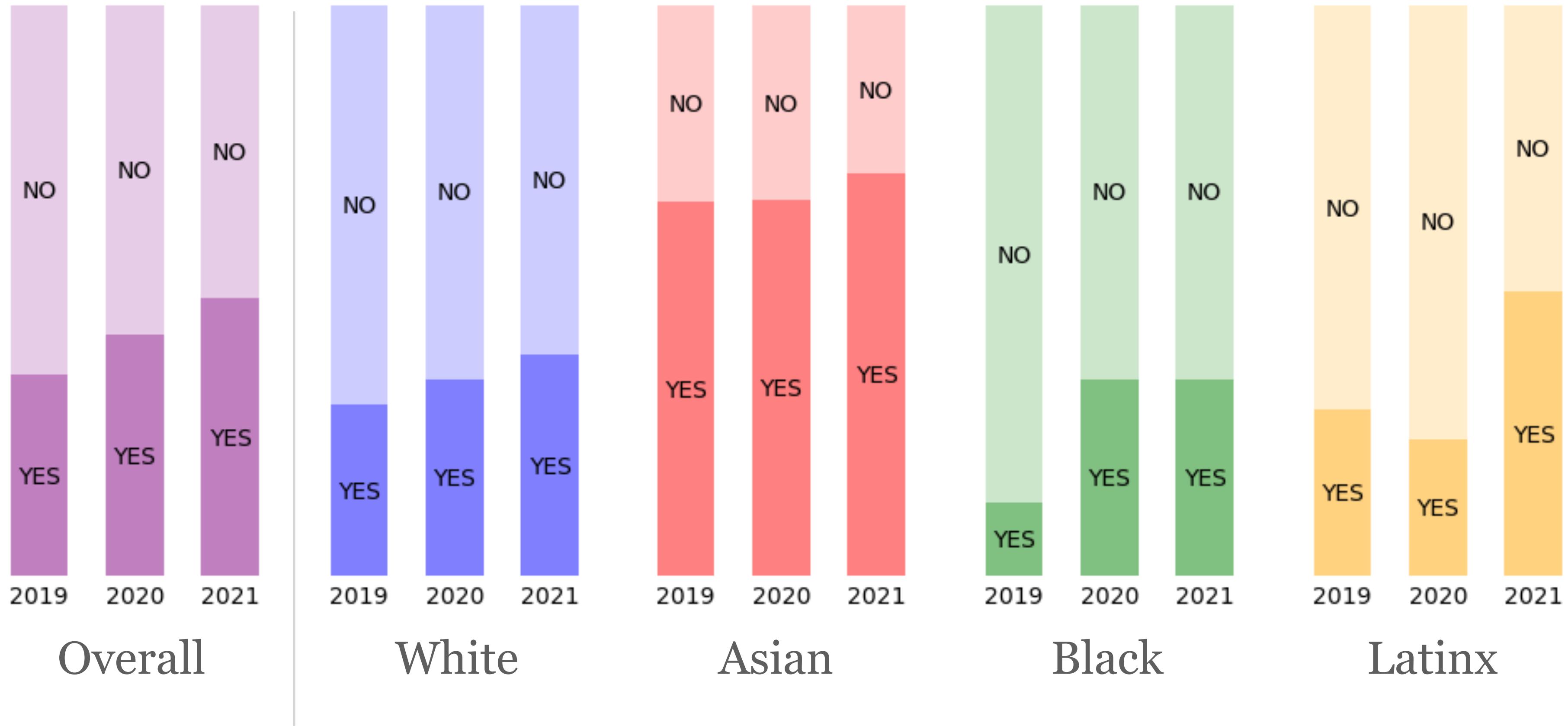
Initial motivating question:

- Do students of color take **alternatives to calculus*** at the expense of **advanced math courses (500+)**?

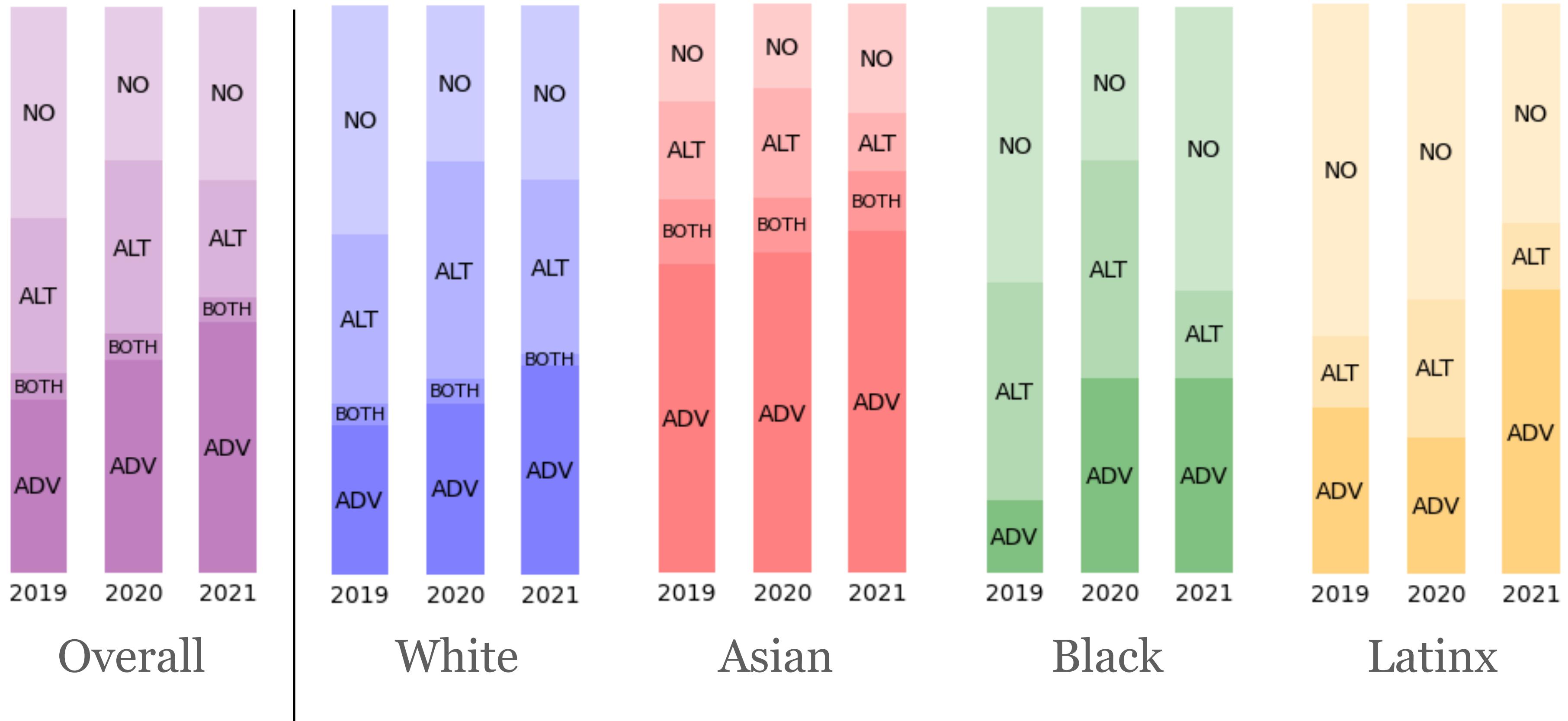
* 40S, 41S, 42S, 43S, 41C, 42C, 43C, 40D, 40H, 40J:

statistics, lab-based calculus, discrete math, history of math, *math of social justice*:
courses after math 330 that do not serve as prerequisites for 500+ level math courses

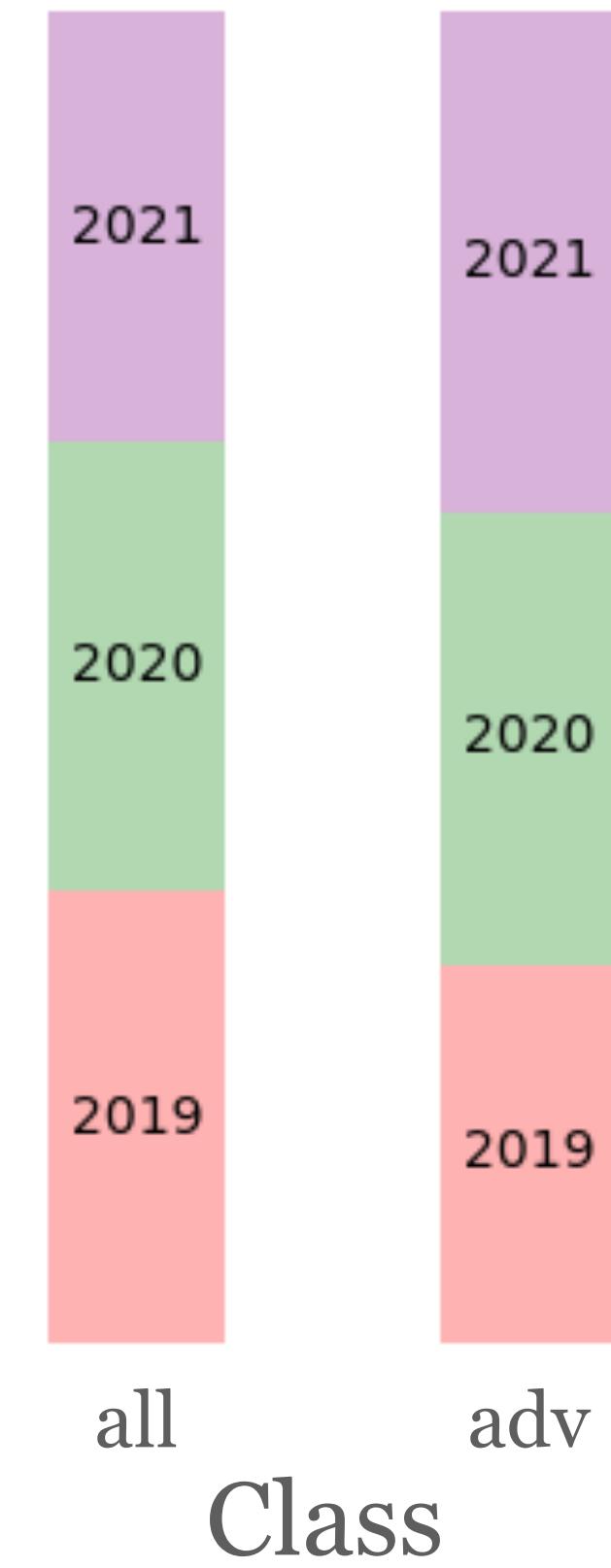
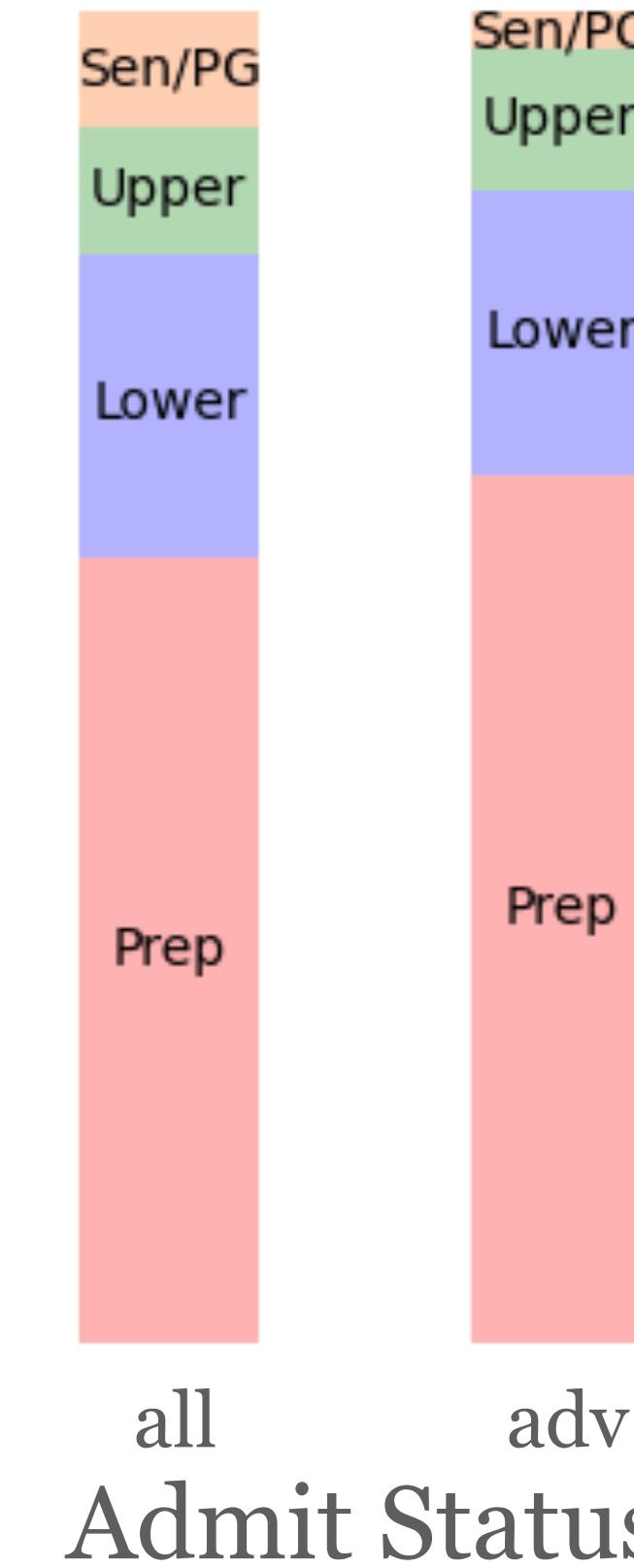
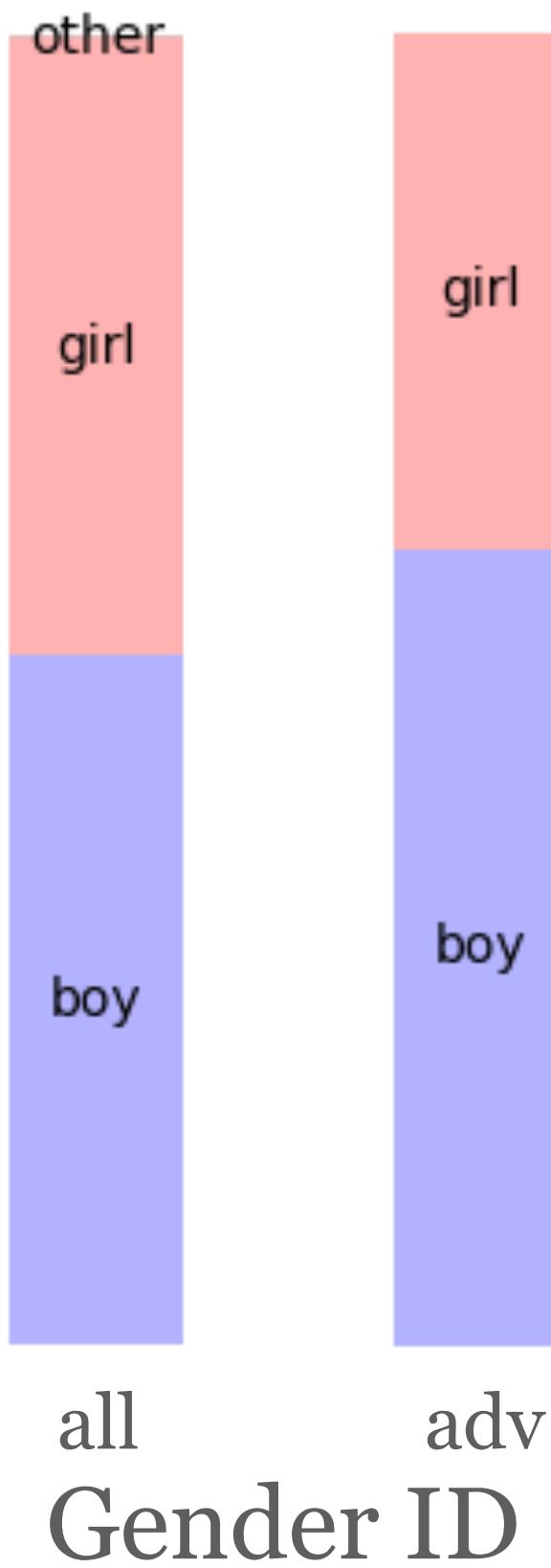
Percentage of students with advanced math

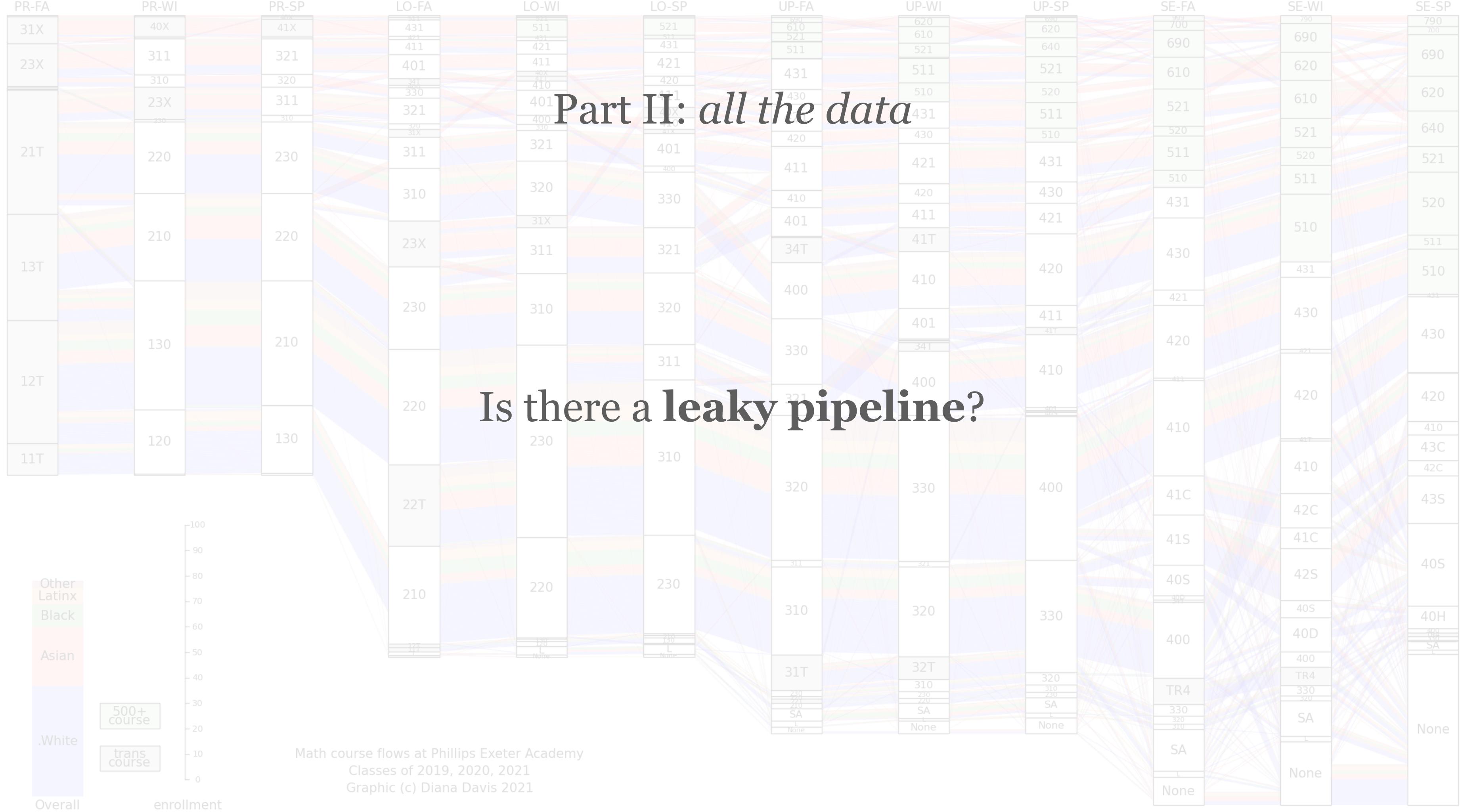


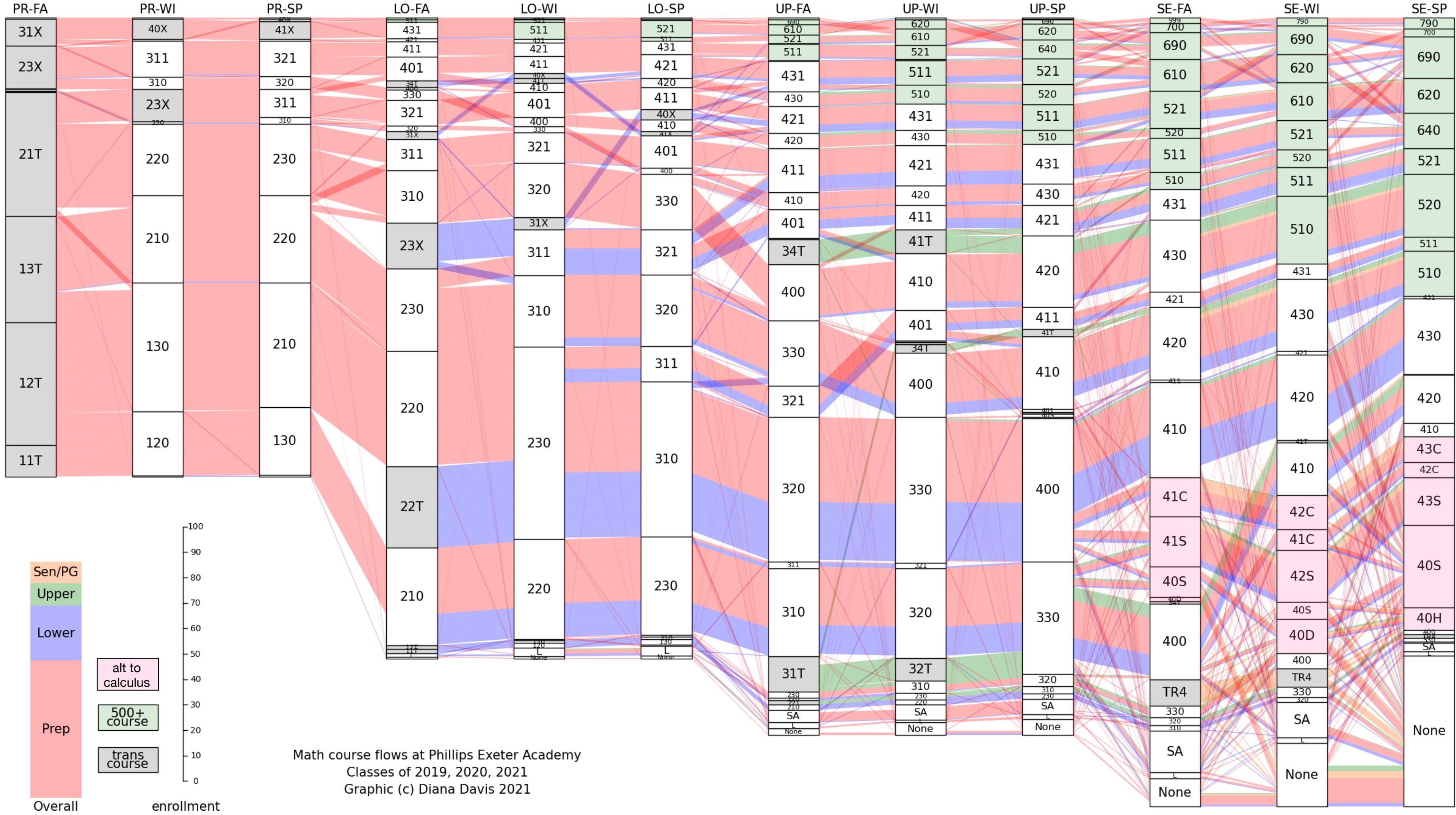
Percentage with advanced math or alternatives to calculus



Who takes advanced math (500+)?





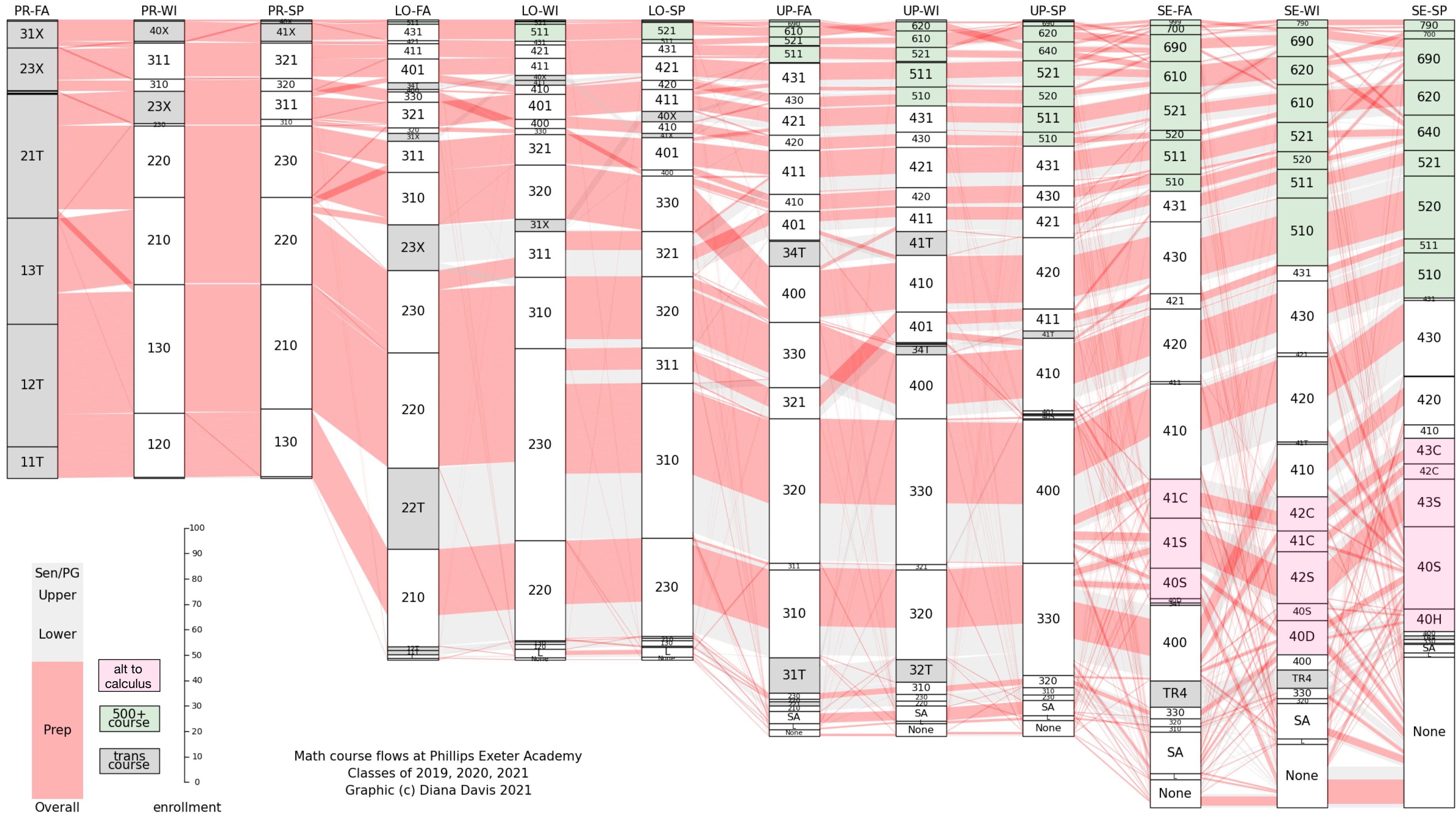


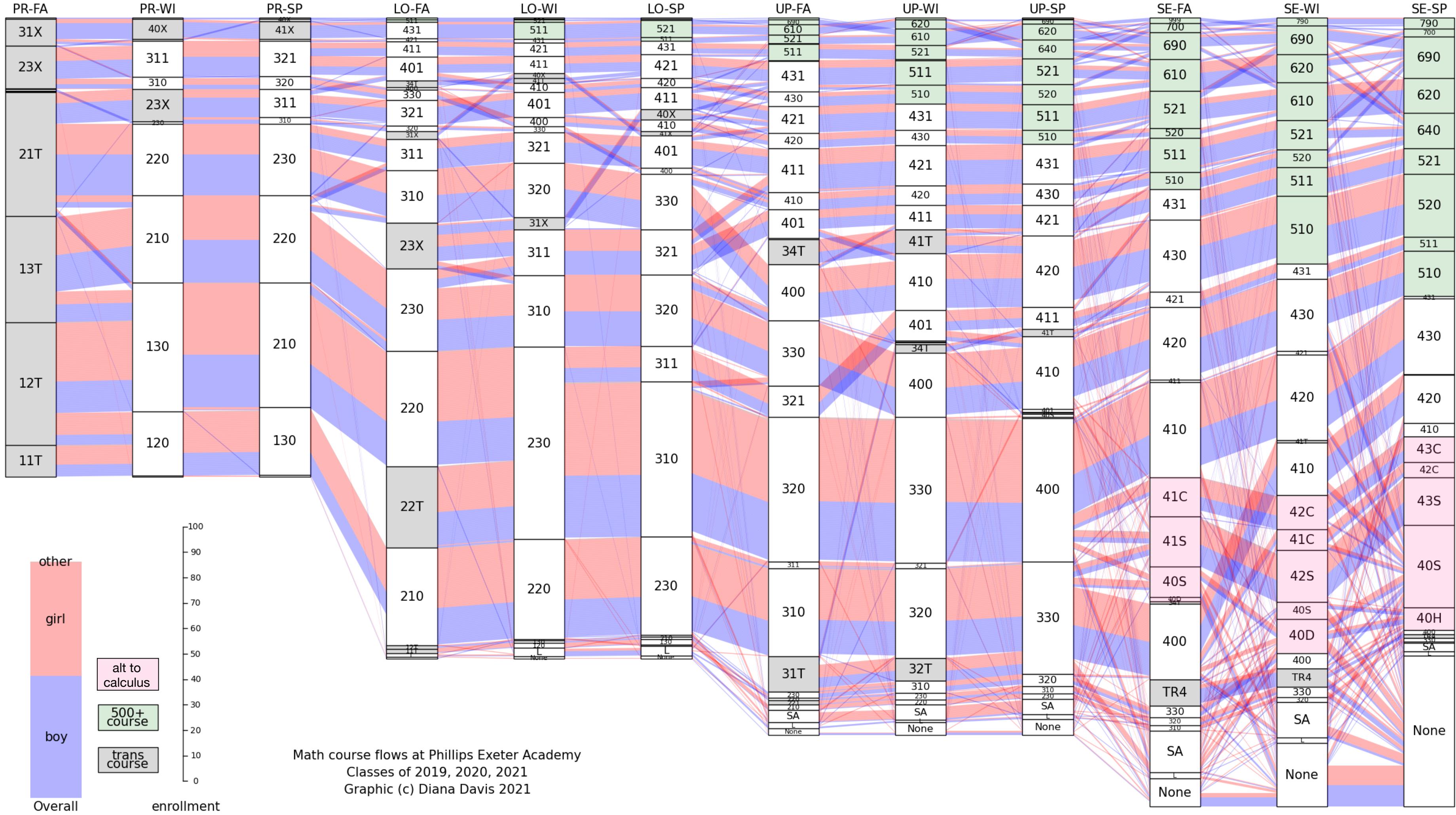
Math course flows at Phillips Exeter Academy

Classes of 2019, 2020, 2021

Graphic (c) Diana Davis 2021

Diana Davis / PEA



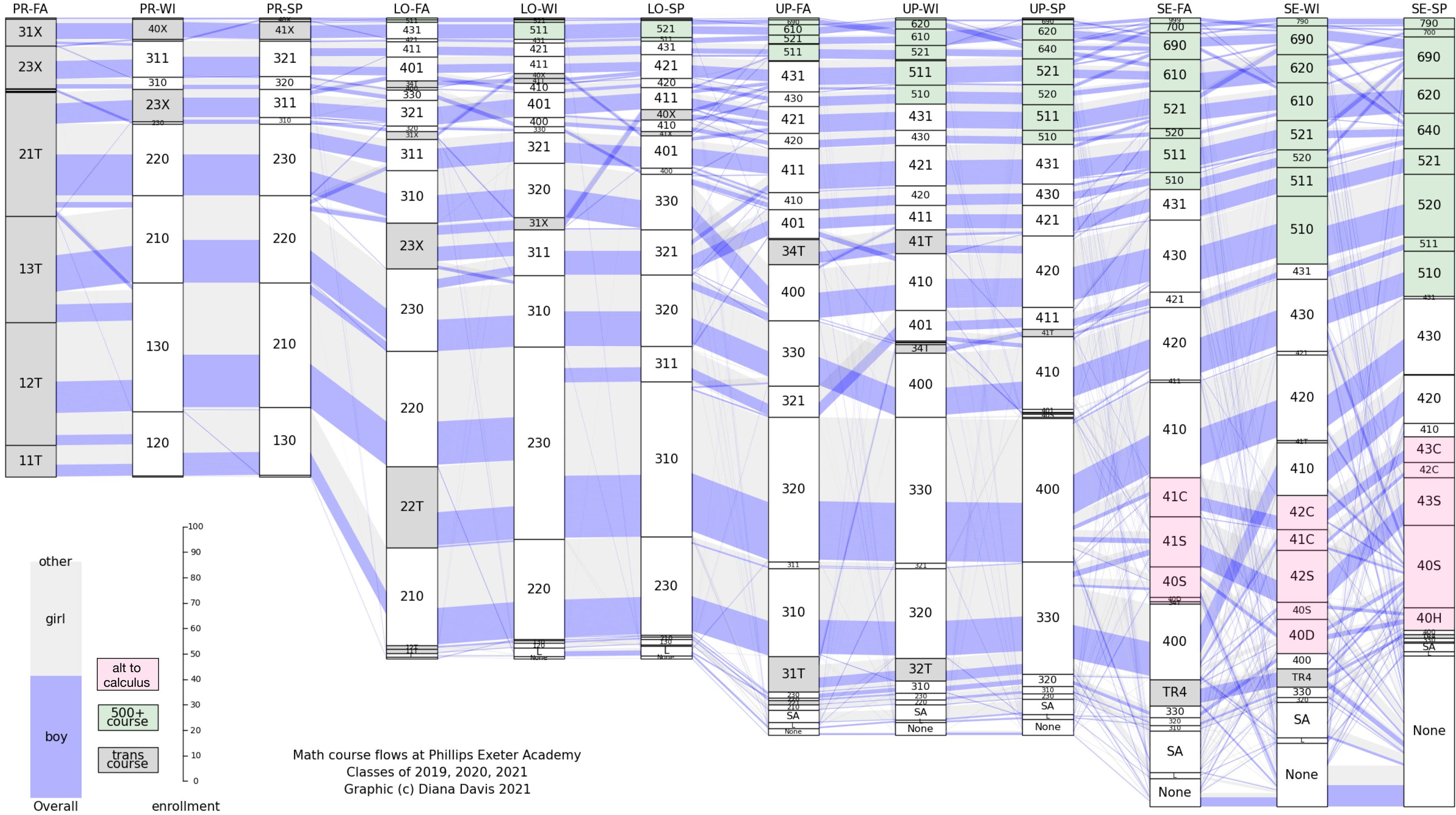


Math course flows at Phillips Exeter Academy

Classes of 2019, 2020, 2021

Graphic (c) Diana Davis 2021

Diana Davis / PEA

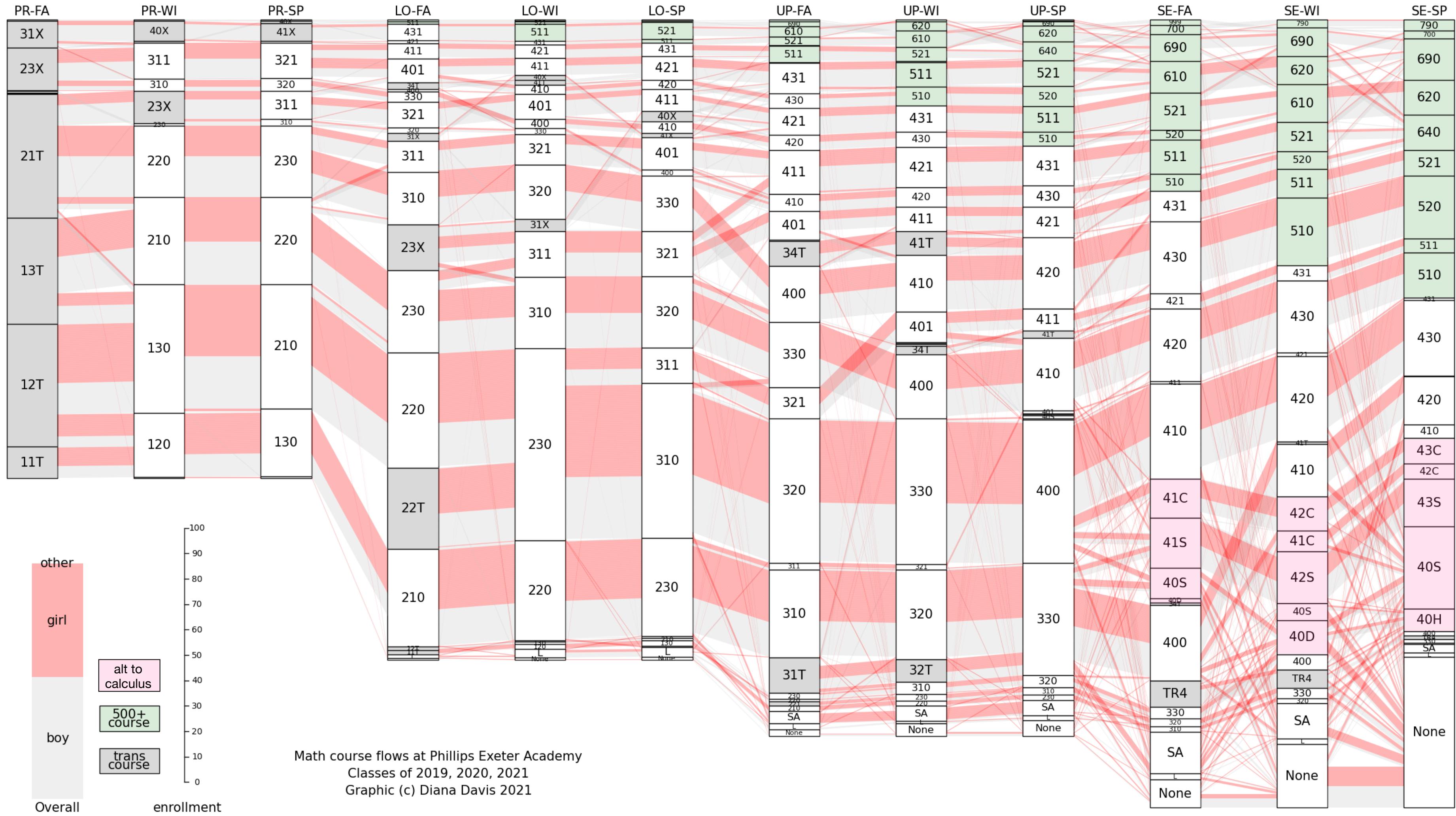


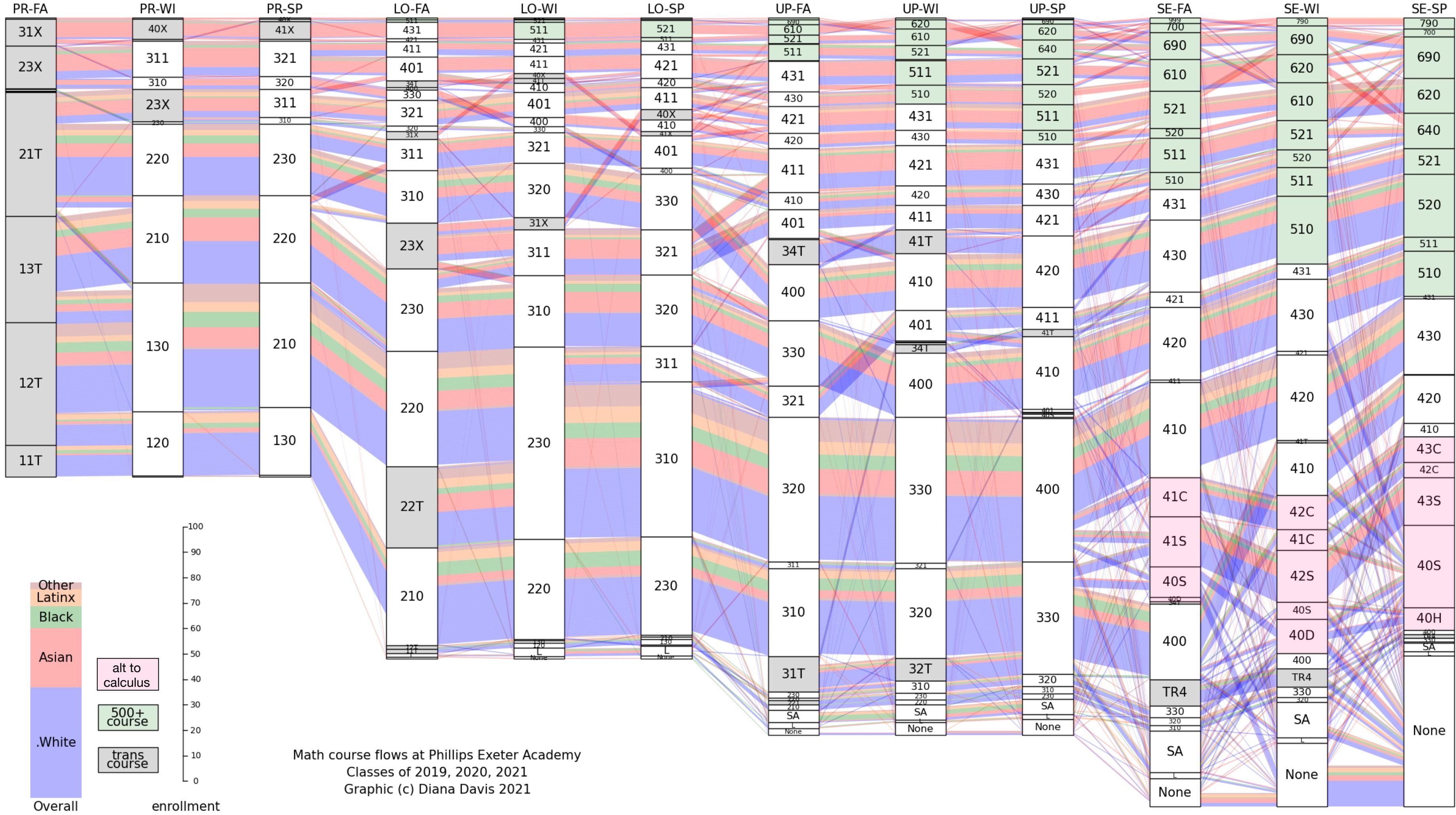
Math course flows at Phillips Exeter Academy

Classes of 2019, 2020, 2021

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Diana Davis / PEA



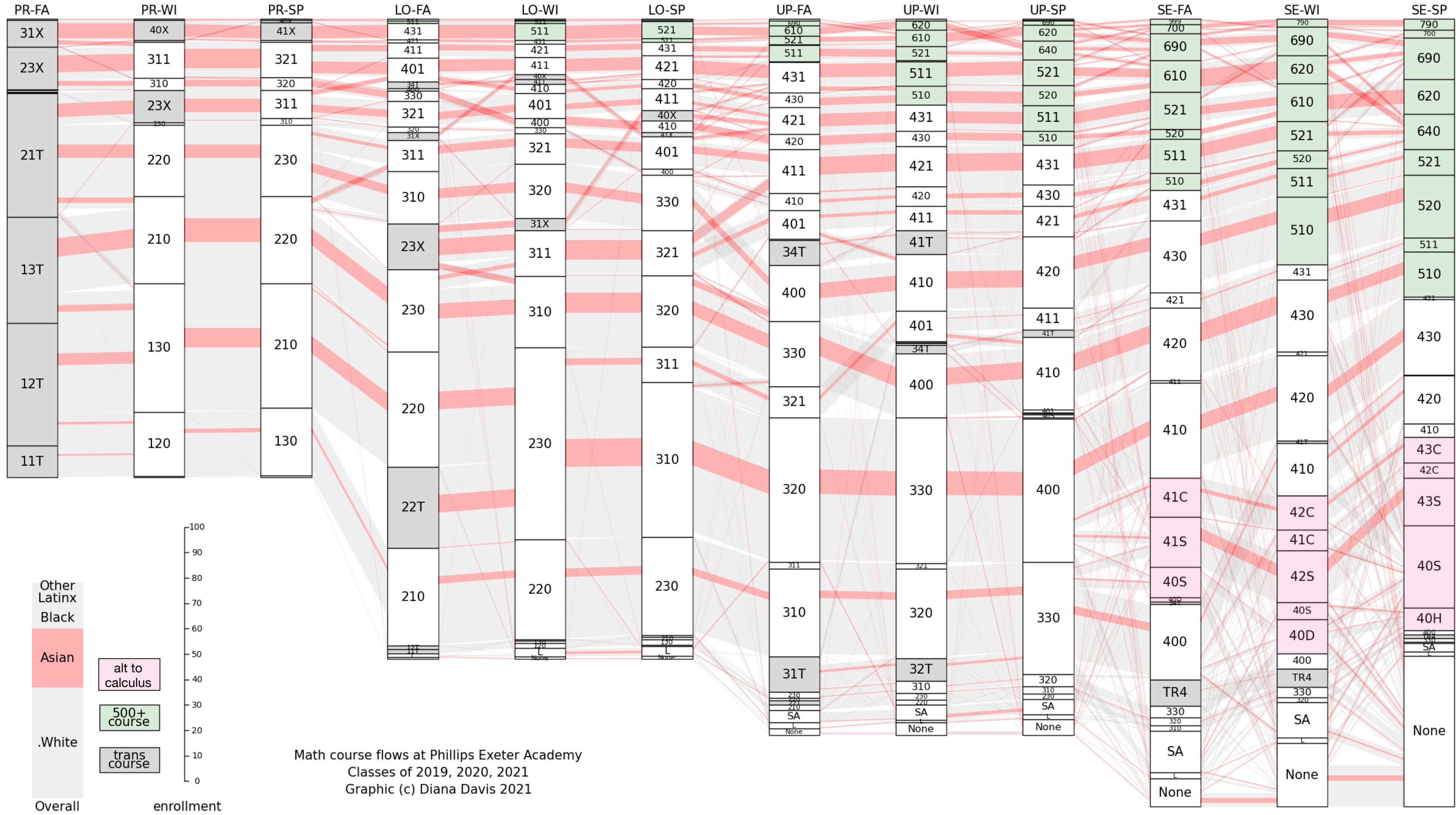


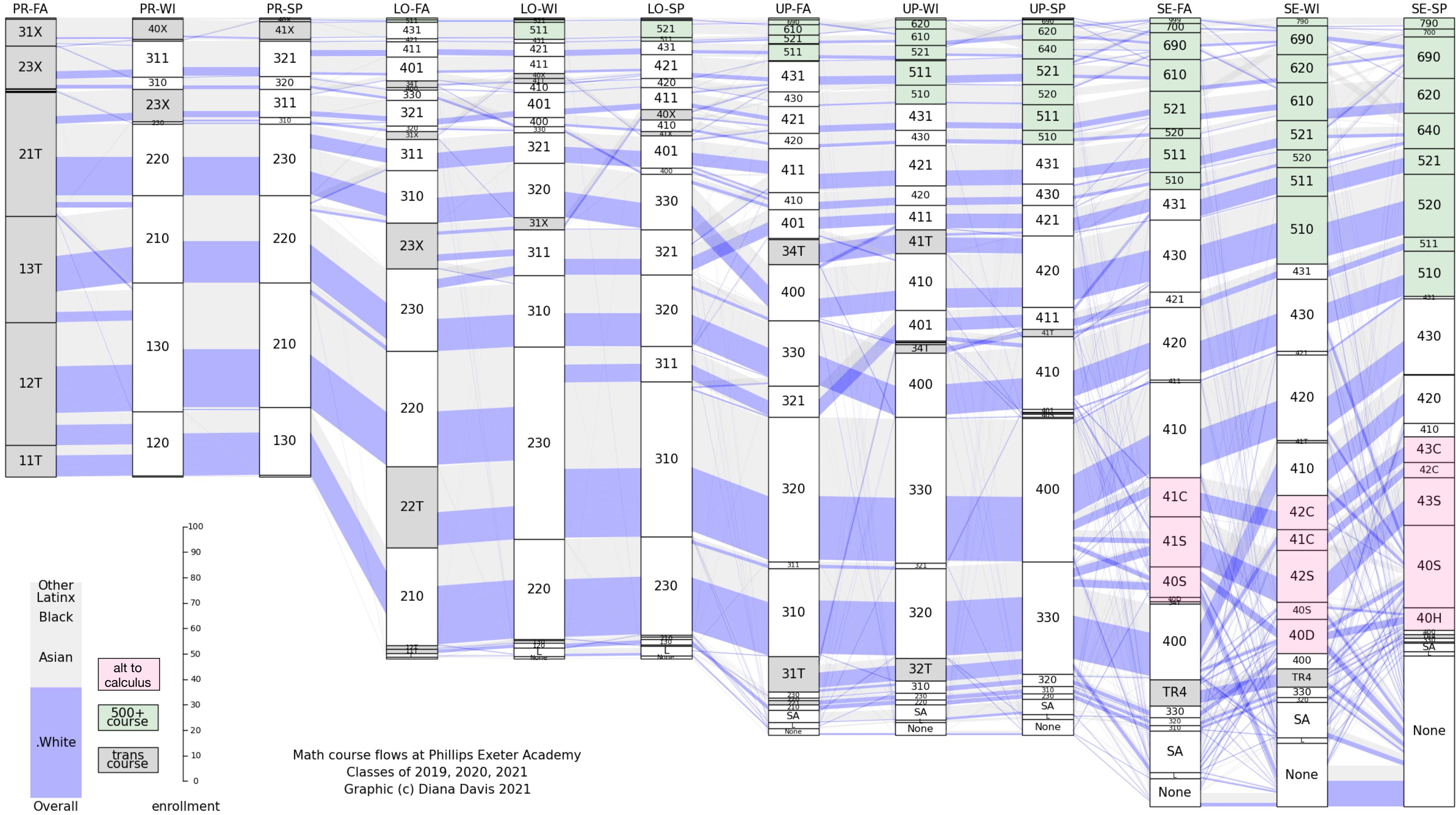
Math course flows at Phillips Exeter Academy

Classes of 2019, 2020, 2021

Graphic (c) Diana Davis 2021

Diana Davis / PEA



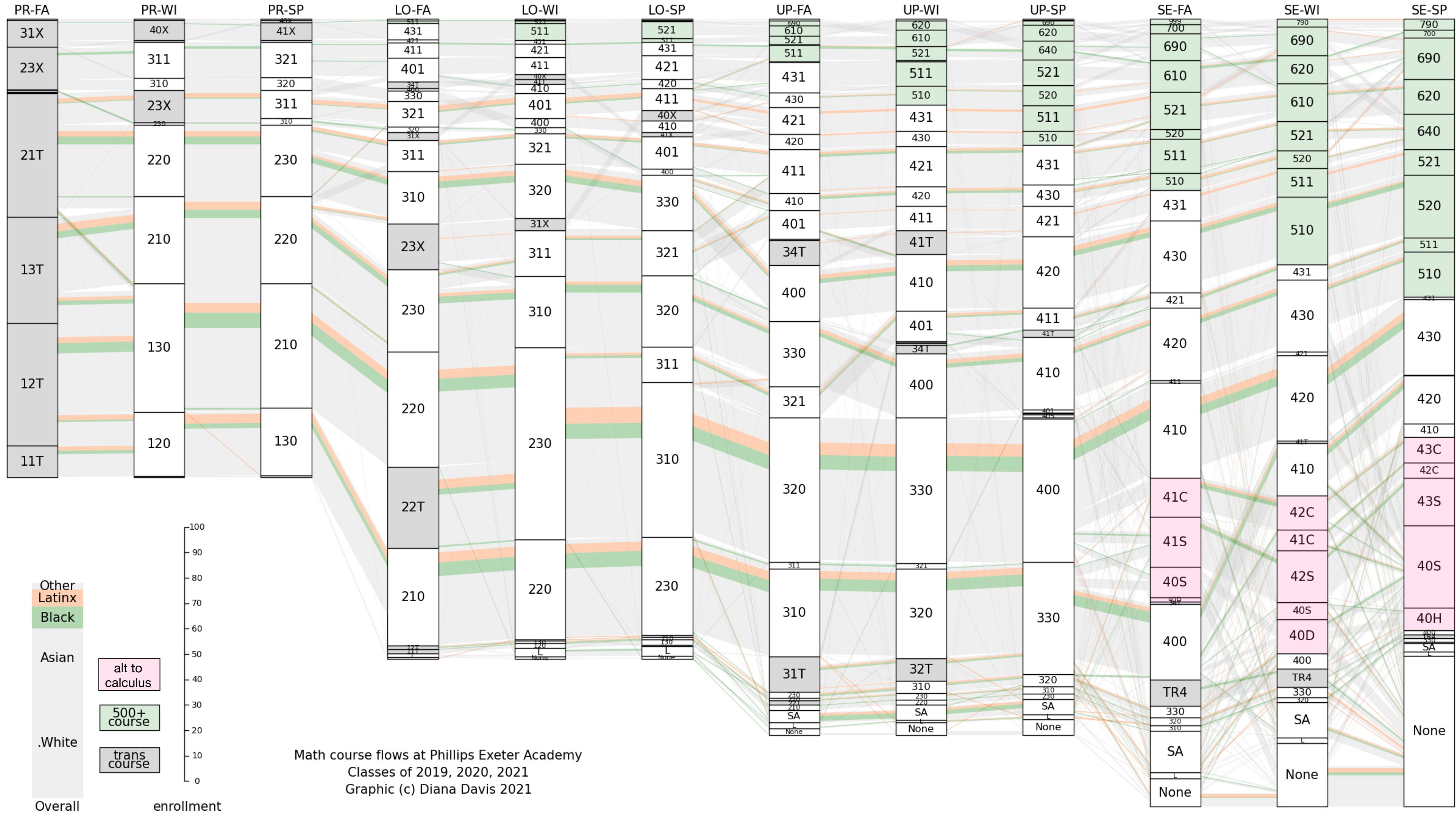


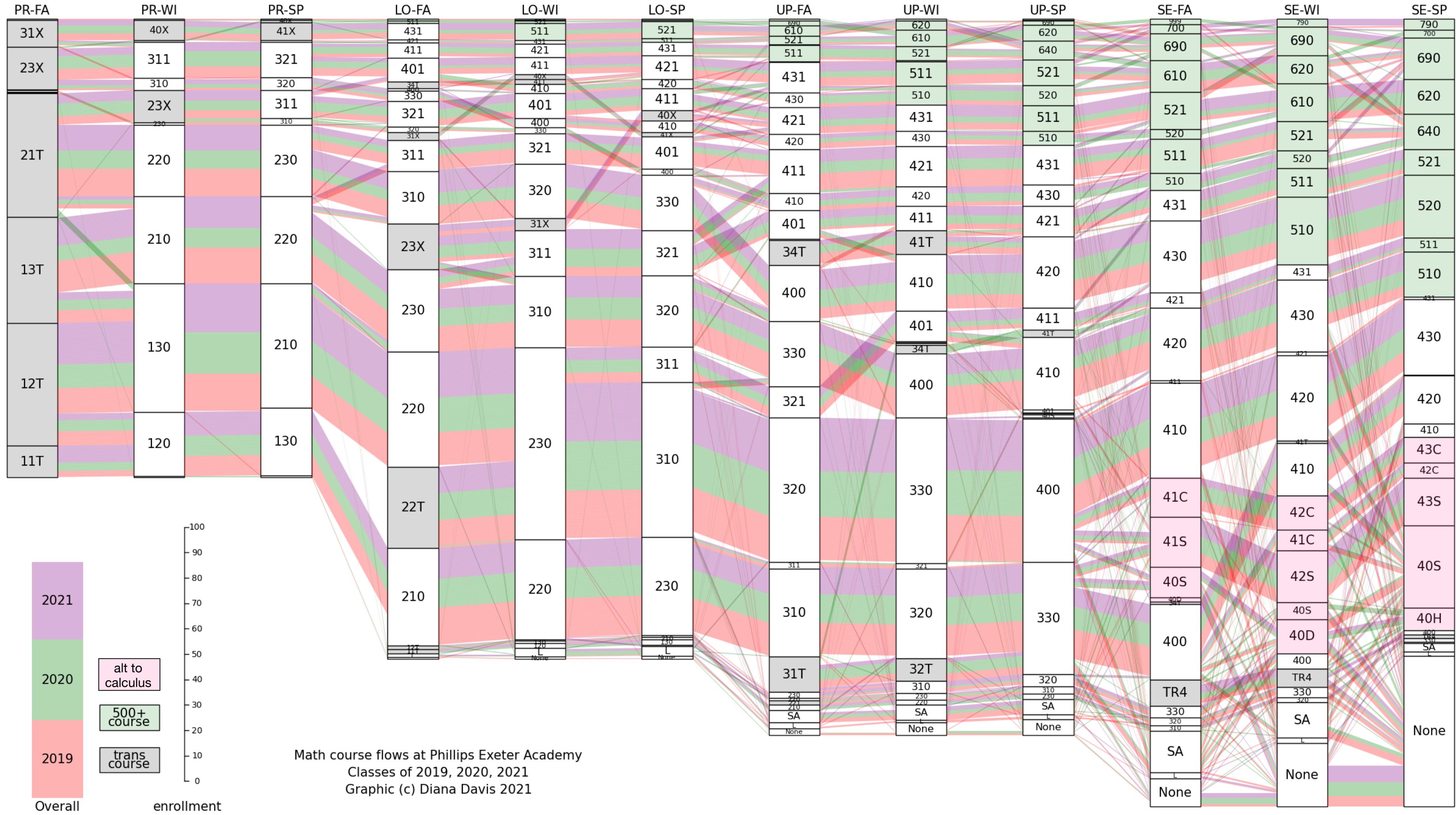
Math course flows at Phillips Exeter Academy

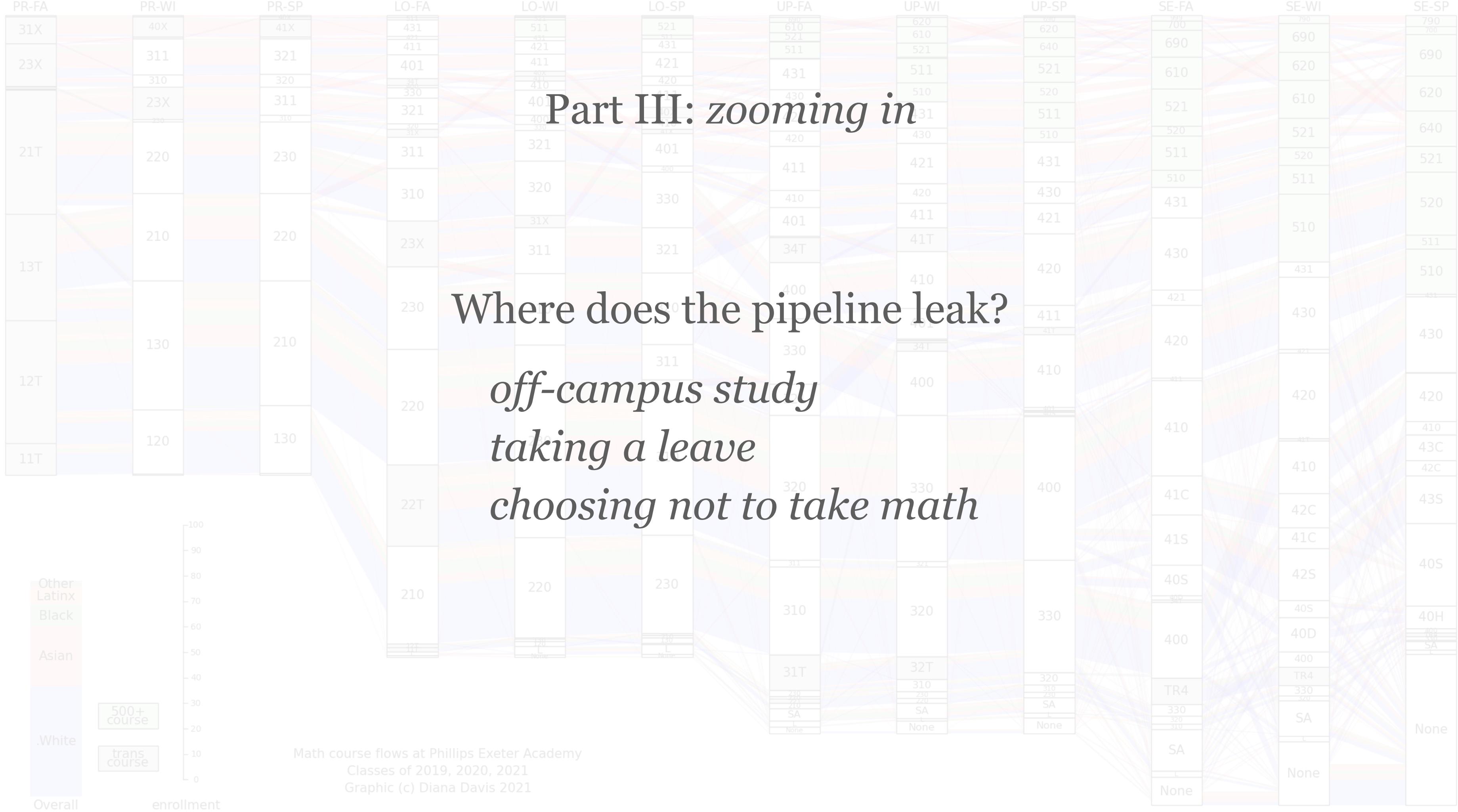
Classes of 2019, 2020, 2021

Graphic (c) Diana Davis 2021

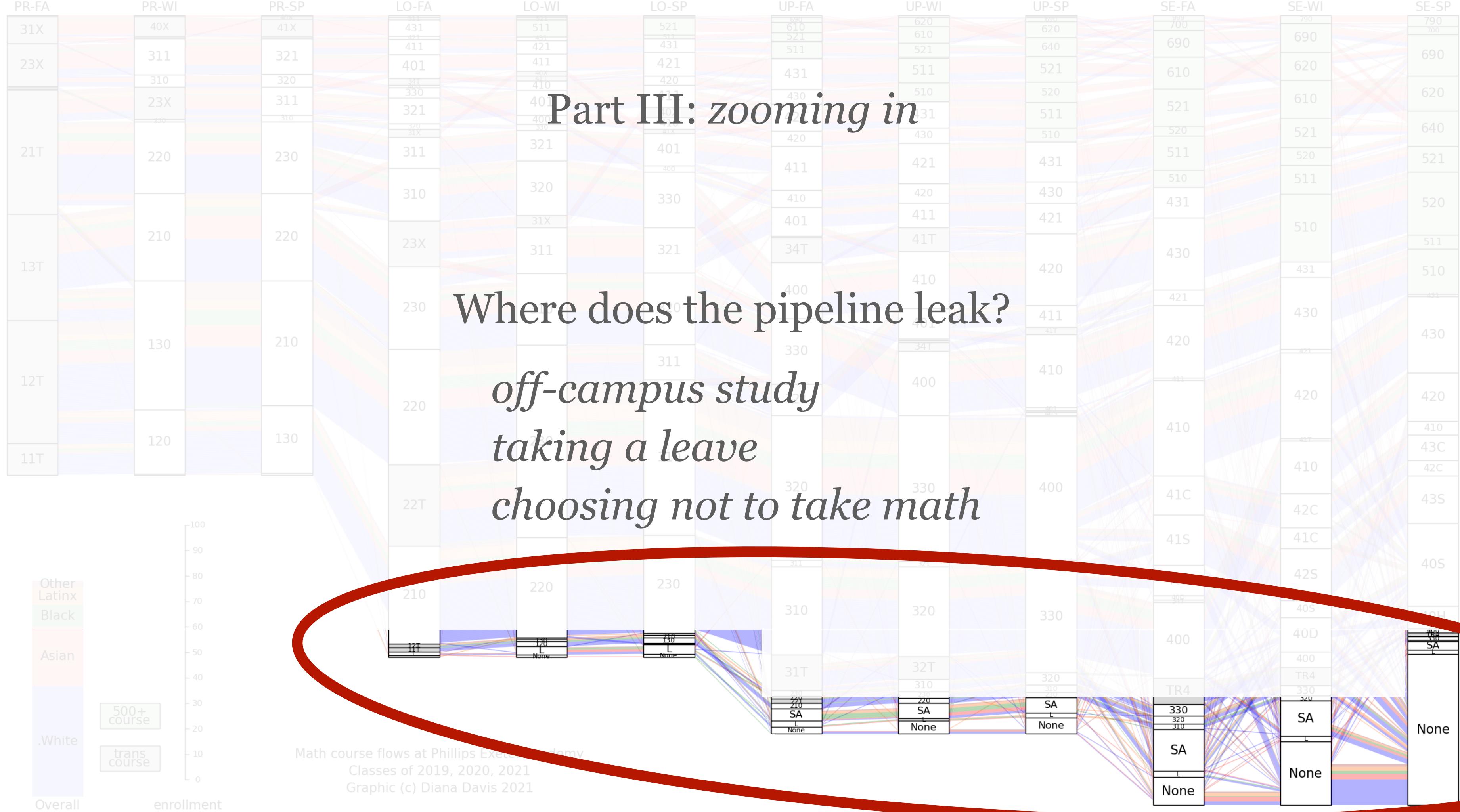
Diana Davis / PEA



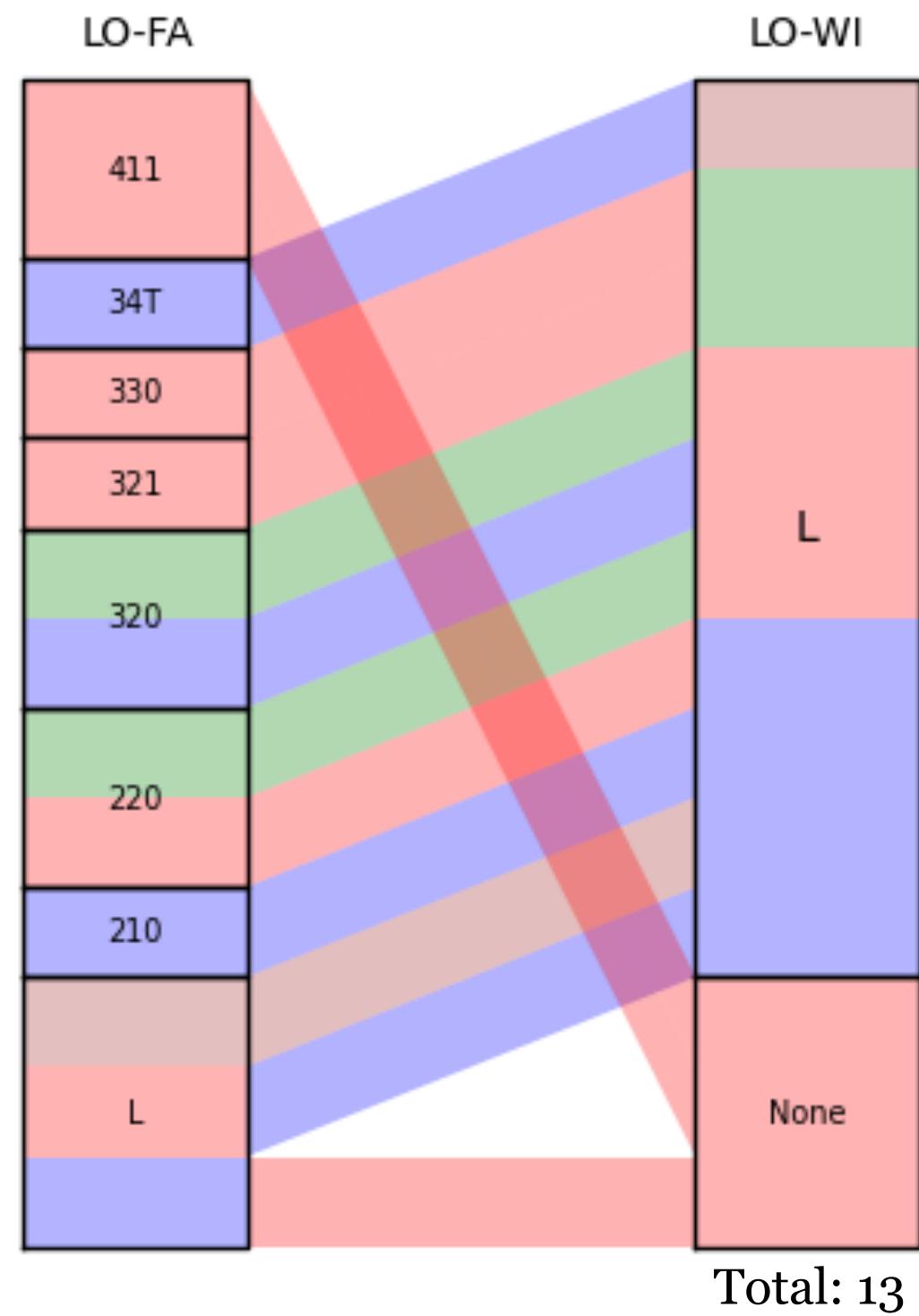




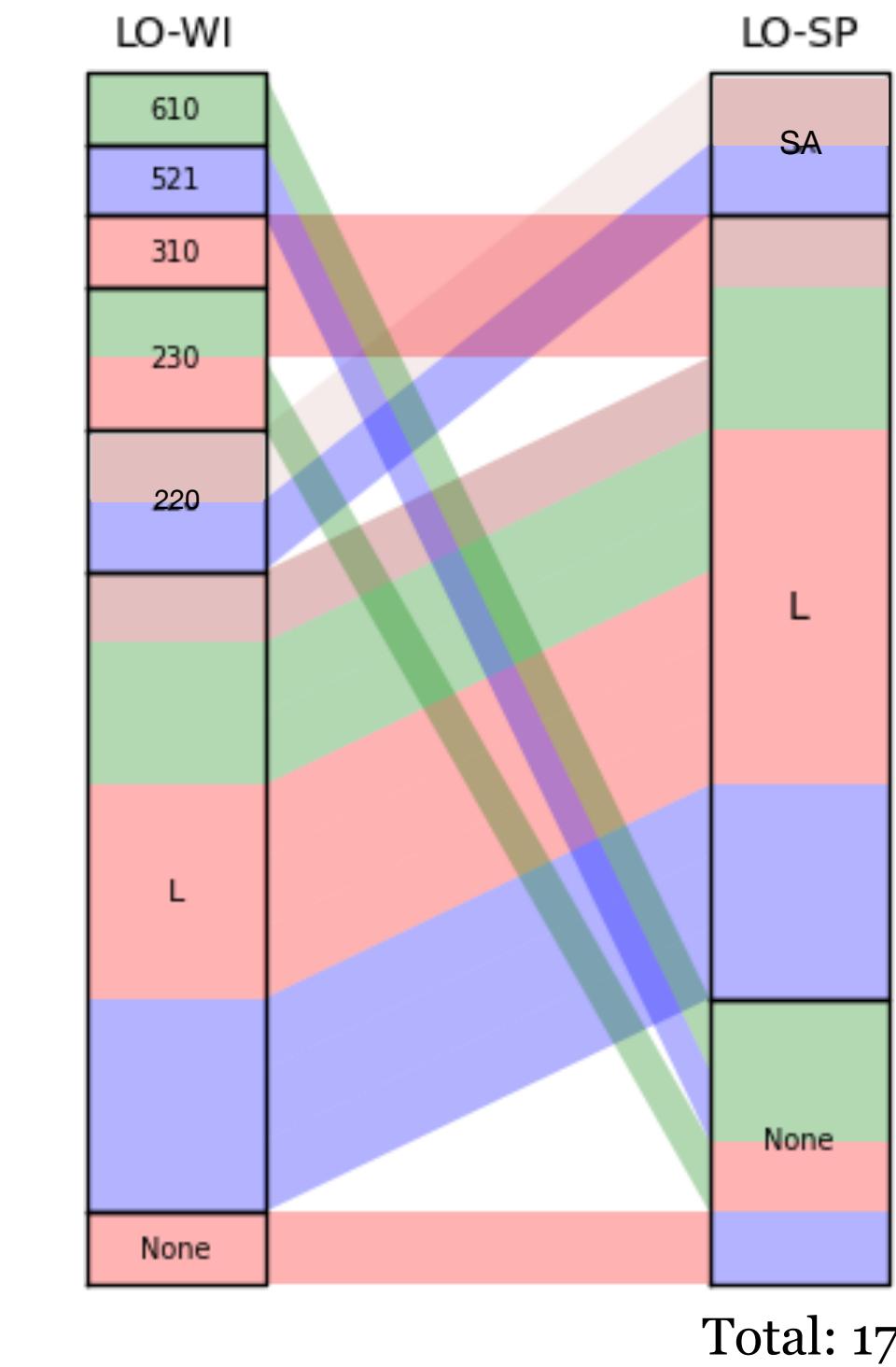
Part III: zooming in
Where does the pipeline leak?
*off-campus study
taking a leave
choosing not to take math*



Lowers not taking math this term



lower winter



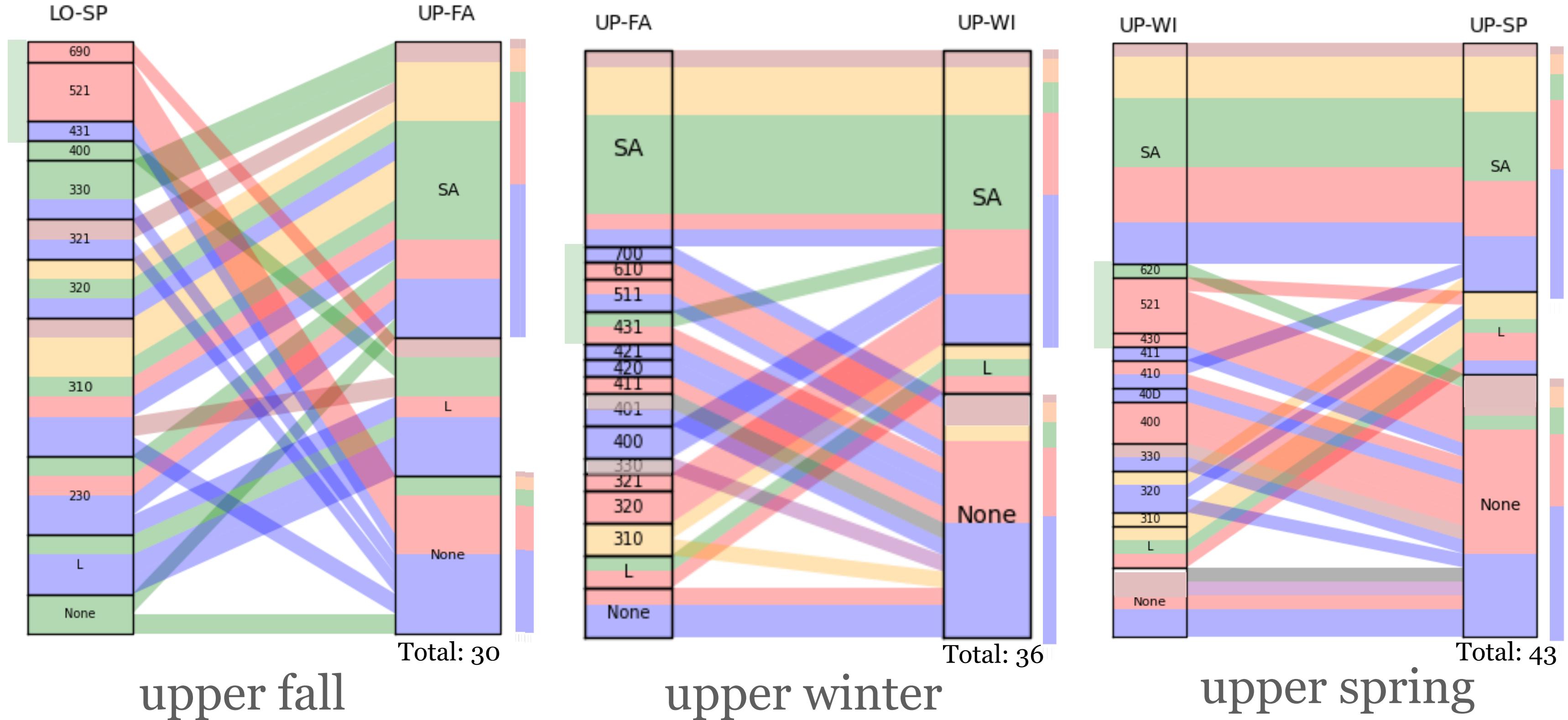
lower spring

study away

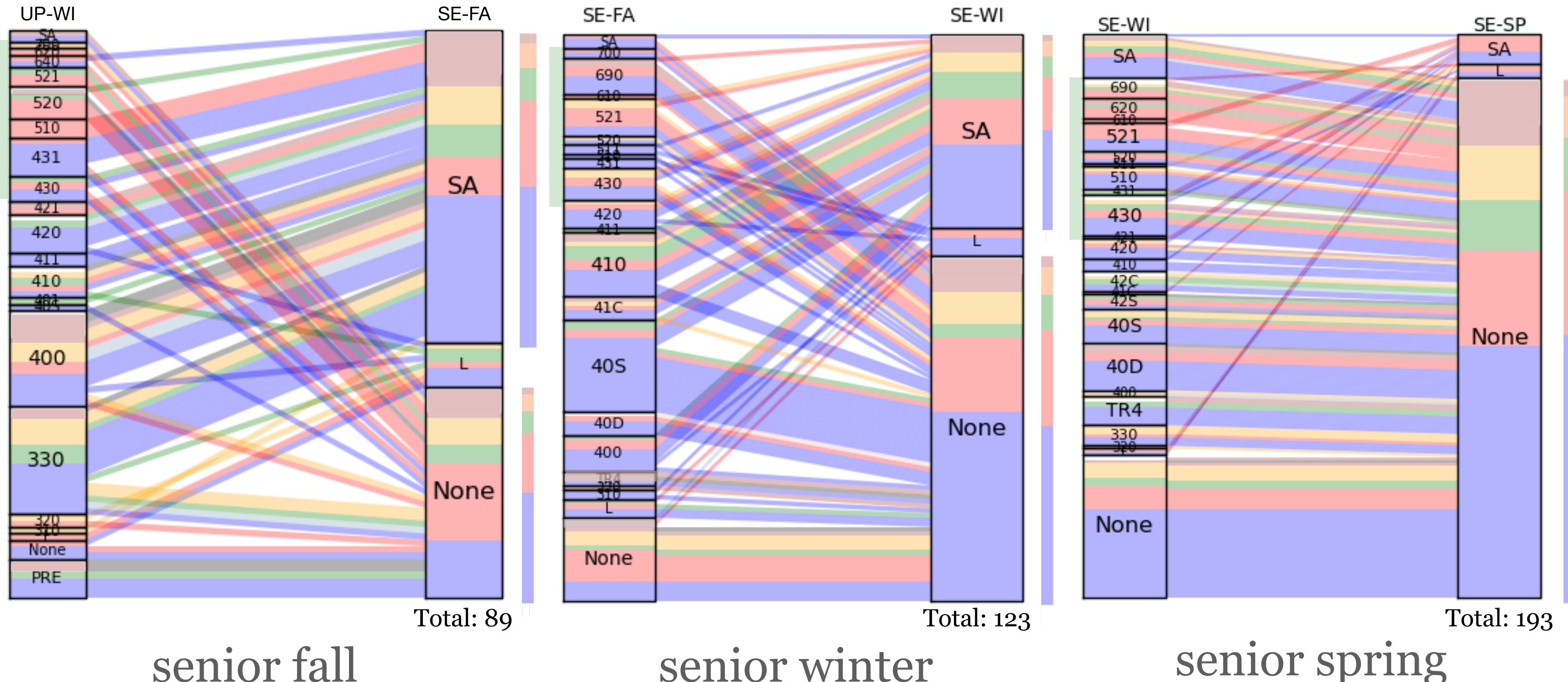
leave
*medical
personal
dean's*

not enrolled
in math

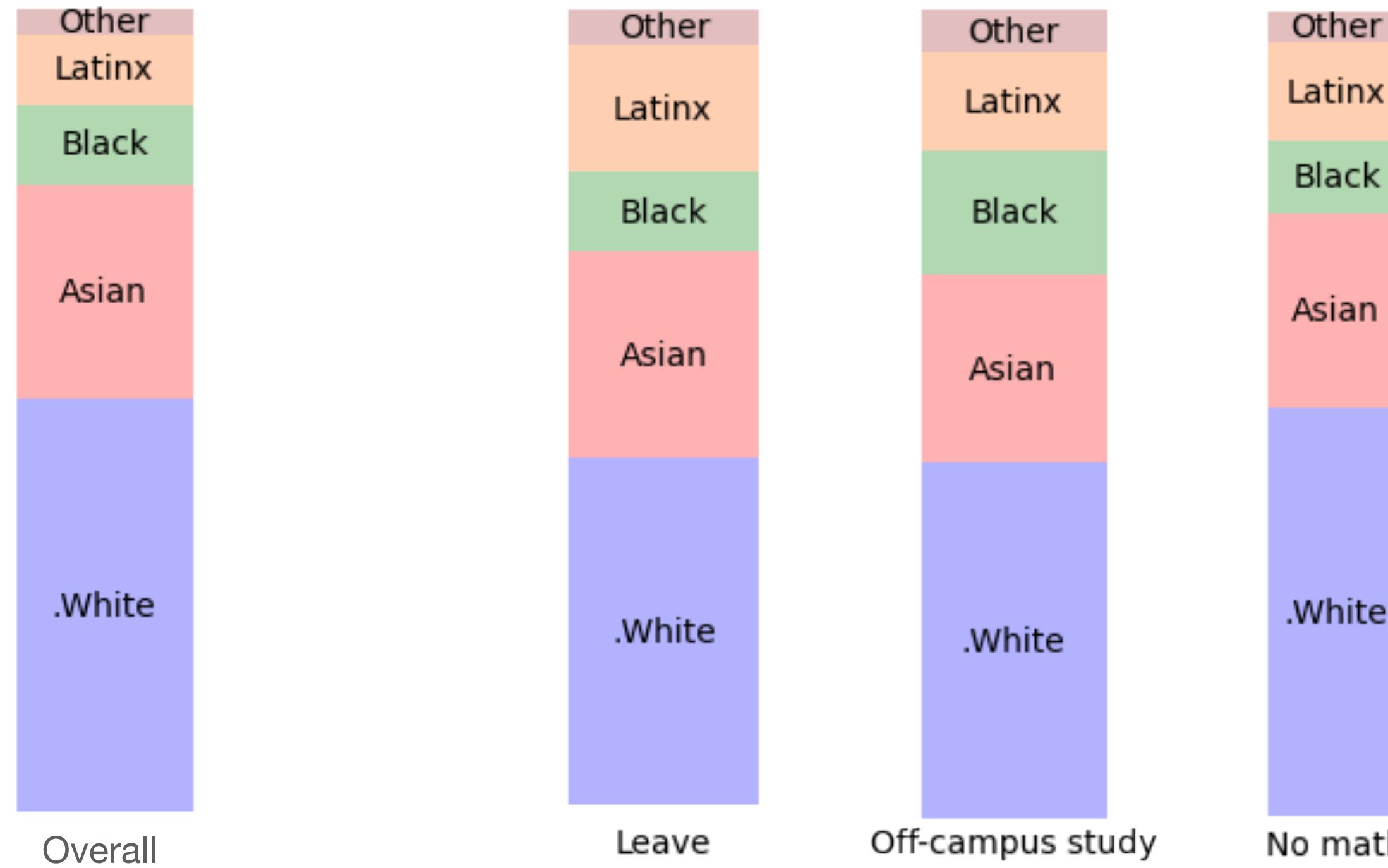
Uppers not taking math this term

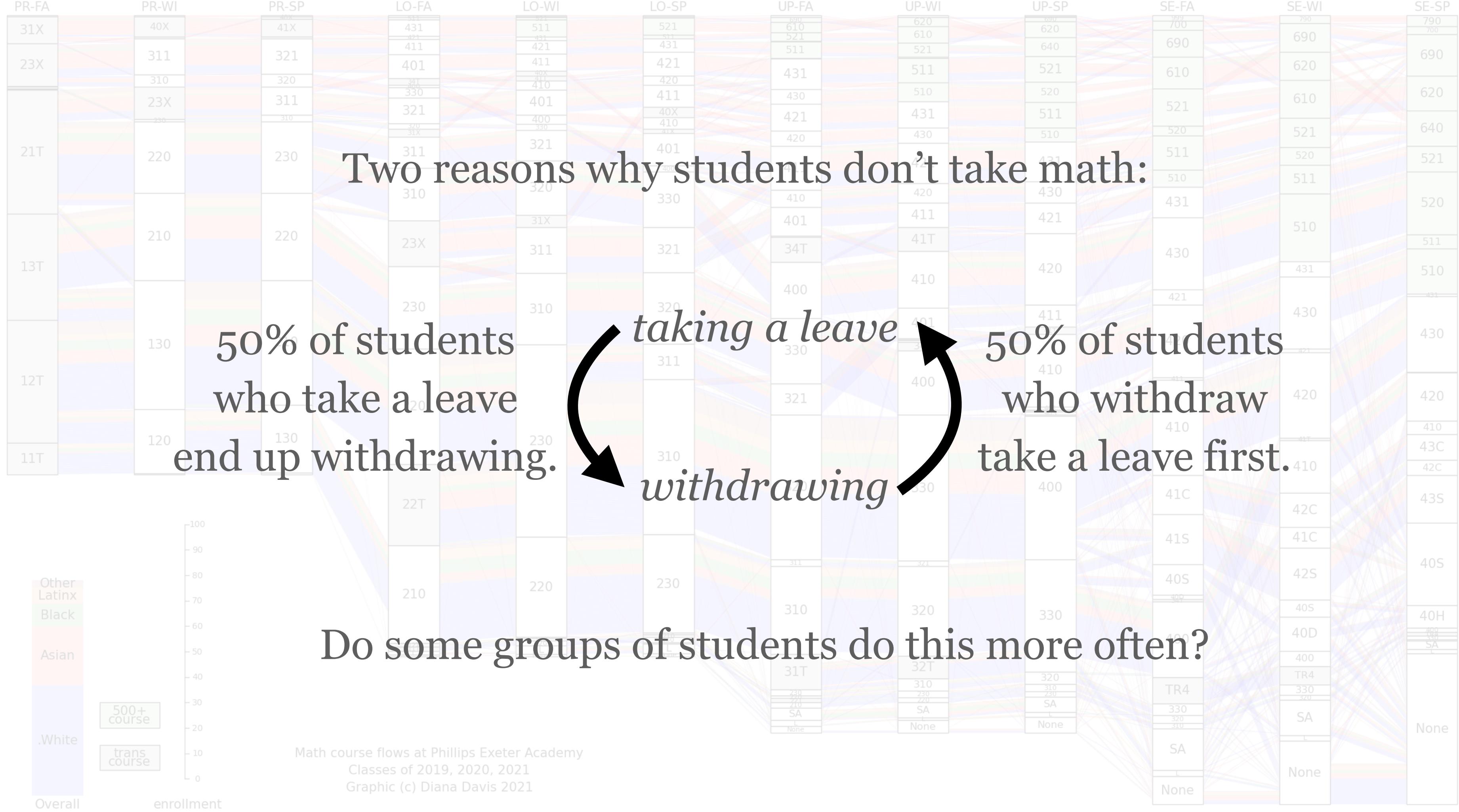


Seniors not taking math this term

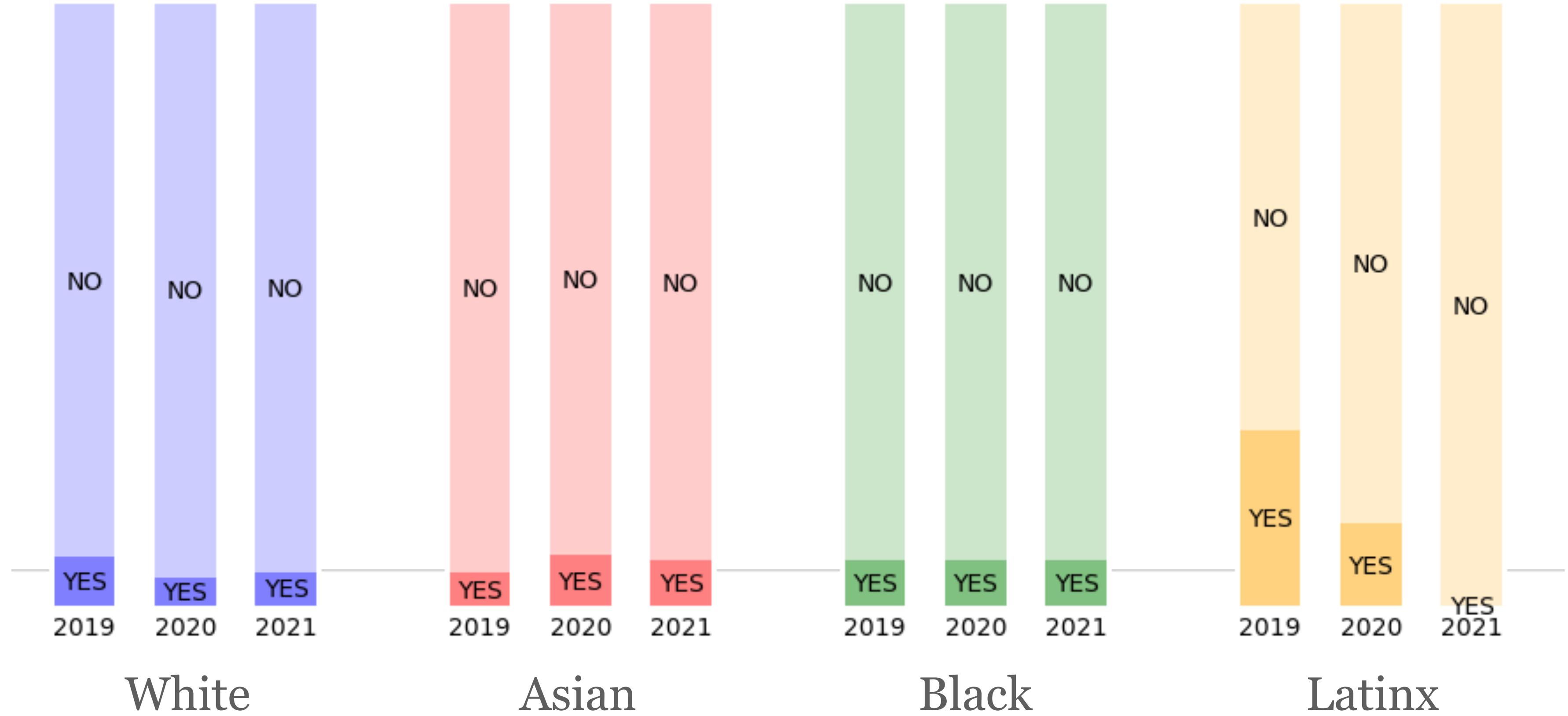


Incidence of reasons for not enrolling in math at PEA

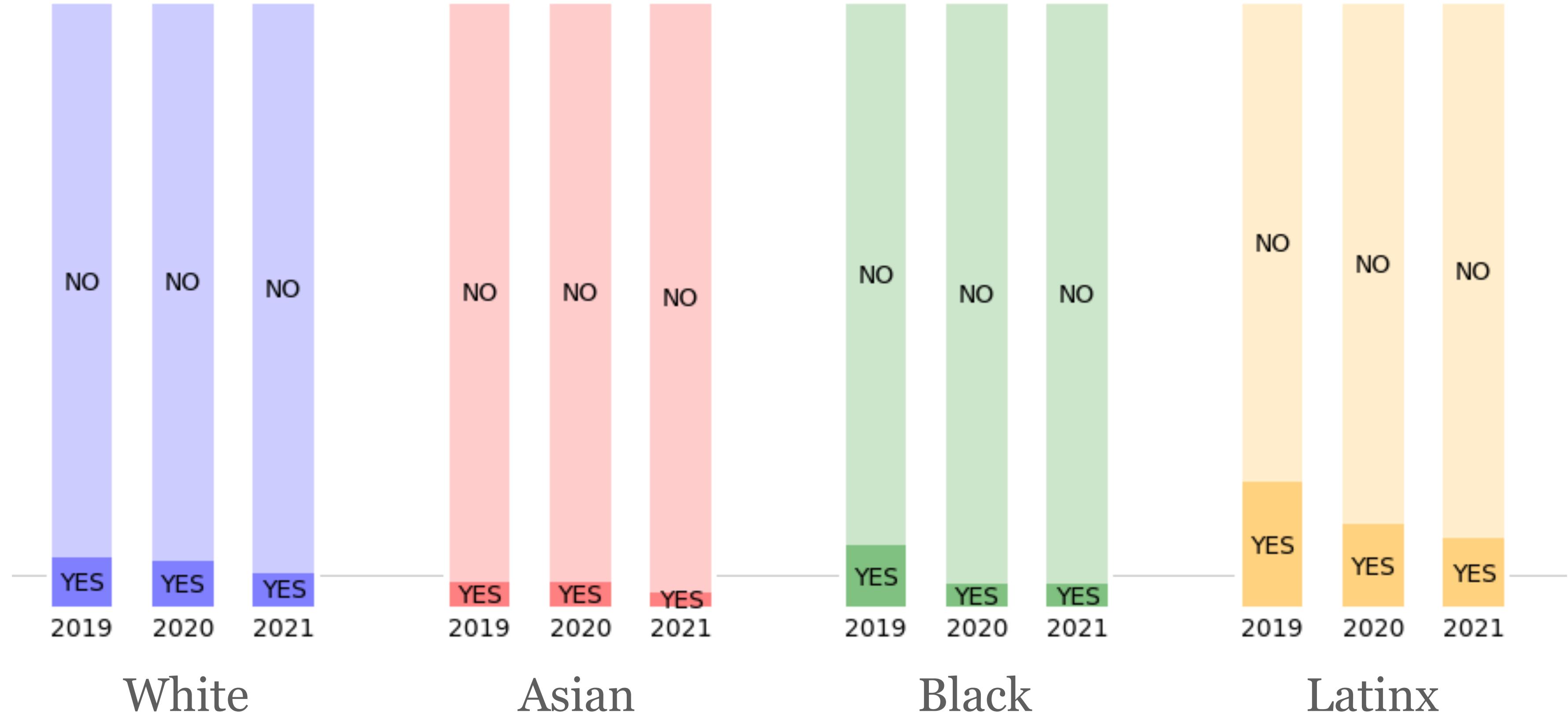




Did you go on leave?



Did you withdraw?



Did you study away?

