



A Homegrown, Low-Cost, Interactive Map and Campus Virtual Tour

Using Leaflet and MapBox



The College at
BROCKPORT
STATE UNIVERSITY OF NEW YORK

Map and Tour Have Many Requirements in Common



- too many pdfs and maps on the site
- interactive
- mobile
- easy to update and expand
- at home with rest of site



Map Project History



- started around 2013 using Google maps framework
- mostly JS
- student developer(s)
- bus tracker
- Google licensing
- API limitations





Transition away from Google Maps



- student programmer Casey Eich
- investigate frameworks
- LeafletJS (leafletjs.com)
- JSON, db
- free, open source
- top down view
- got out just in time



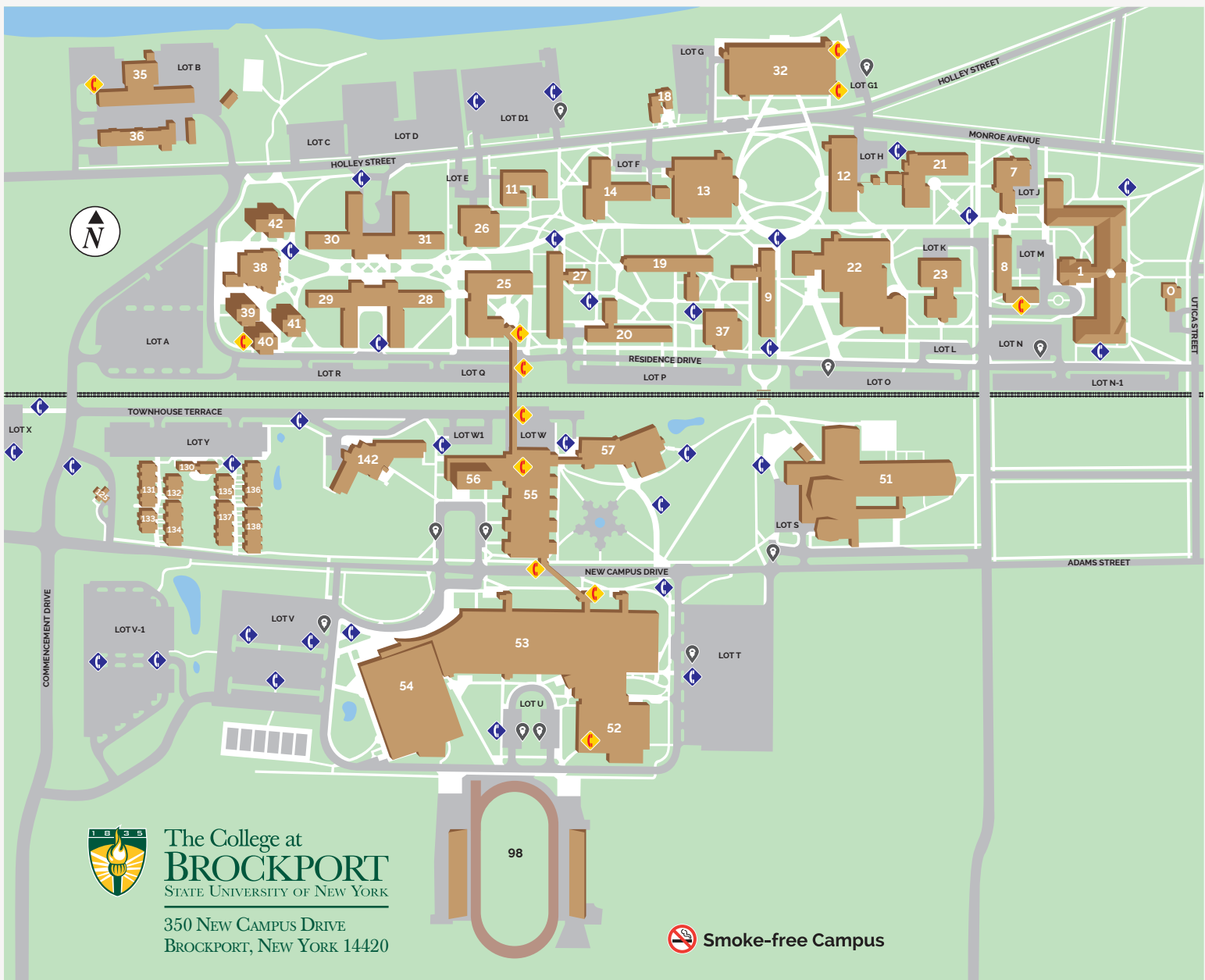
Map Demo



- <https://www.brockport.edu/map>
- overlays
- searches
- descriptions
- key
- custom urls/maps [<https://www.brockport.edu/map/commencement-undergrad-morning>]



Printable Map



ACADEMIC BUILDINGS

- 25. A.W. Brown Building
- 51. Cooper Hall
- 55. Drake Memorial Library
- 13. Edwards Hall
- 1. Hartwell Hall
- 14. Holmes Hall
- 7. Lathrop Hall/University Police
- 21. Lennon Hall
- 57. Liberal Arts Building
- 12. Smith Hall
- 54. Special Events Recreation Center (SERC)
- 32. Tower Fine Arts Center
- 53. Tuttle North
- 52. Tuttle South

SERVICE BUILDINGS

- 56. Allen Administration Building
- 0. Alumni House
- 18. Burlingame House
- 35. Chapman Building
- 36. Commissary Building
- 125. Conrad Welcome Center/Parking
- 26. Dailey Hall
- 98. Eunice Kennedy Shriver Stadium
- 11. Hazen Hall
- 8. Morgan Hall/Graduate Studies
- 23. Rakov Center for Student Services/Undergraduate Admissions
- 22. Seymour College Union

RESIDENCE HALLS

- 28. Benedict Hall
- 40. Bramley hall
- 41. Briggs Hall
- 29. Dobson Hall
- 142. Eagle Hall
- 31. Gordon Hall
- 30. Harmon Hall
- 20. MacVicar Hall
- 27. McFarlane Hall
- 19. McLean Hall
- 42. Mortimer Hall
- 39. Perry Hall
- 9. Thompson Hall

STUDENT TOWNHOMES

- | | |
|---------------------|-----------------|
| 130. Community Ctr. | 135. Building 5 |
| 131. Building 1 | 136. Building 6 |
| 132. Building 2 | 137. Building 7 |
| 133. Building 3 | 138. Building 8 |
| 134. Building 4 | |

DINING HALLS

- 1. Hartwell Café
- 37. Brockway Dining Hall
- 22. The Square at Union/ Jitterbugs
- 55. Aerie Café
- 38. Harrison Dining Hall/TRAX/Eagles Nest
- 52. Kinetic Kafé

PARKING KEY

- All vehicles must have a Brockport parking permit.
- Visitors must park and pay at a meter, pay station (Lot T and V), or obtain a parking permit from the Conrad Welcome Center.

Authorized 24-hour parking area

- | | |
|------------------|---------------|
| Blue.....B, M, X | Red.....V1, X |
| Yellow.....A, C | Purple.....Y |

- Parking area L — Admissions permit required.

Permit Color

- | | |
|------------------------|--|
| Blue (Faculty & Staff) | Lot(s) B, D, D1, E, F, G, H, J, K, M, N, N1, O, P, Q, R, S, T, V, X (6:30 am – 2 am) |
| Orange (Commuter) | D, D1, N, N1, O, P, R, T, V, V1, W, W1, X (6:30 am – 2 am) |
| Brown (Commuter) | D, D1, N, N1, O, P, R, T, V, V1, W, W1, X (4:30 pm – 2 am) |
| Yellow (Resident) | A, C (24 hours) |

Permit Color

- | | |
|--------------------------|---|
| Purple (Resident) | Lot(s) Y (24 hours) |
| Red | V1, X (24 hours) |
| Green (Community Rec) | T, V, V1 (6 am – 2 am) |
| Silver (Emeriti/Retiree) | All (except L; 6:30 am – 2 am) |
| Casual Visitors | Any (except lots A, C, L, Y) |
| Visiting Groups | Contact Parking and Transportation Services |

Designated Smoking Areas: Lots A and D1

Eco-Friendly Parking Spaces: Lots P, Q, S, T and W

Blue Light Emergency Phone

Yellow Box Emergency Phone

Meters

Updated: March 2019



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350 NEW CAMPUS DRIVE
BROCKPORT, NEW YORK 14420



Smoke-free Campus



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Tour Project History



- replacing previous vendor product
- student programmer(s) Casey Eich, Torrin Lisi
- hopes: same framework, db?
- research framework - [MapBox.com](https://www.mapbox.com)
- JS, JSON, share db
- support multiple tours



Tour Demo



- <https://www.brockport.edu/tour>



*Web Designer
Megan Asbeck*



Tour Development



- perspective MapBox
- extruded MapBox
- map drawing onto MapBox



Map and Tour Share CMS



- map objects are in a single db
- CakePHP / MySQL
- build JSON data files
- custom maps
- <https://www.brockport.edu/map/editor>



Thanks!



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